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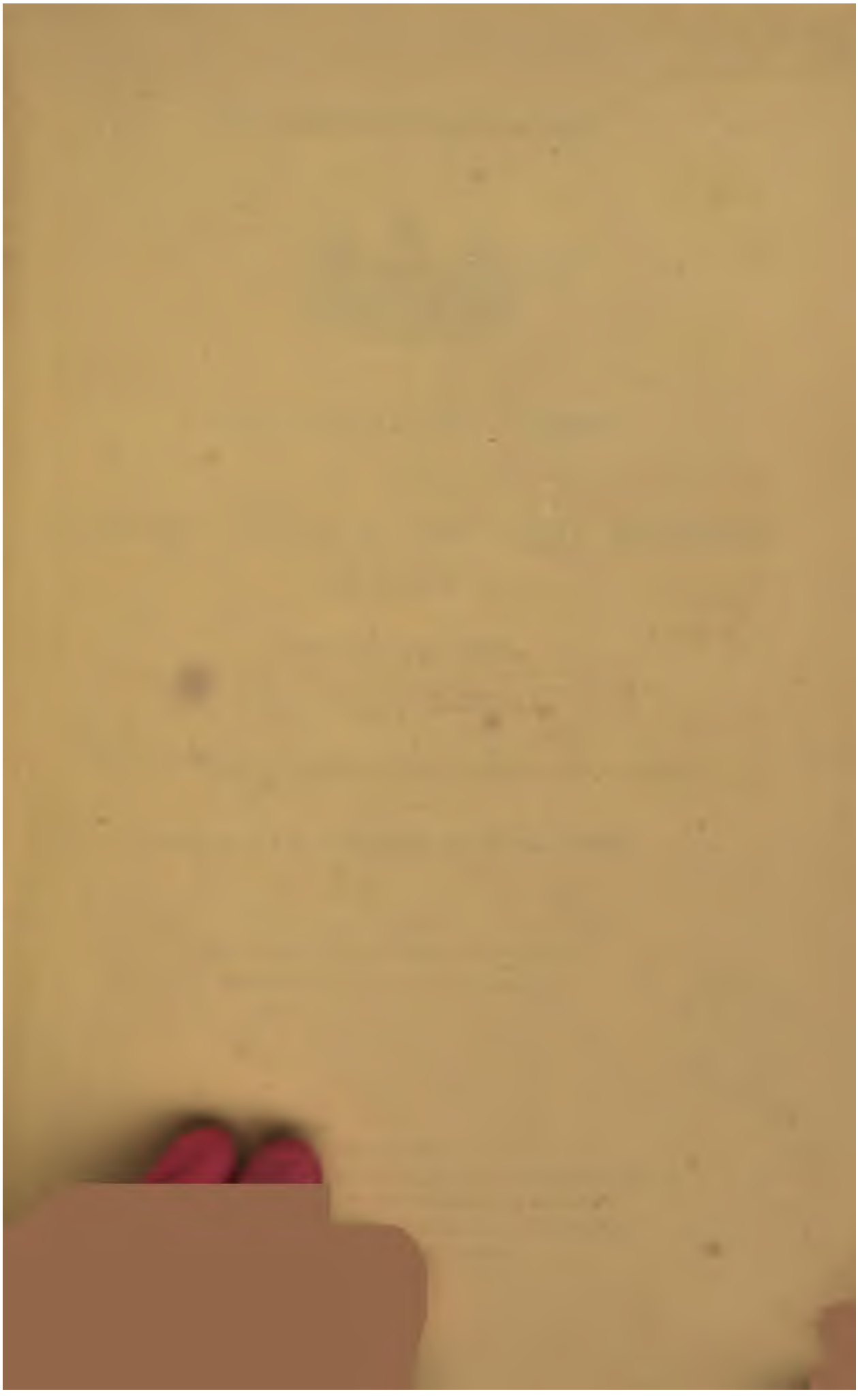

15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.

CHRONOLOGICAL INDEX

OF

PATENTS APPLIED FOR AND PATENTS GRANTED,

For the Year 1858.

Printed and Published by Order of the Honourable the Commissioners of Patents,

UNDER THE

ACT of 15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.

BY BENNET WOODCROFT,

SUPERINTENDENT OF SPECIFICATIONS, INDEXES, &c.

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PRINTED BY GEORGE EDWARD EYRE AND WILLIAM SPOTTISWOODE,

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PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

SOUTHAMPTON BUILDINGS, HOLBORN.

1859.

CHRONOLOGICAL INDEX

OF

PATENTS APPLIED FOR AND PATENTS GRANTED.

HENRY. 1st January 1858.	1. JOHN HENRY, of Friday Street, in the City of London, and Buchanan Street, Glasgow, in the County of Lanark, Manufacturer, for an invention for—"Improvements in weaving fabrics for ladies' dresses and petticoats." *Provisional protection only.*
MURPHY. 1st January 1858.	2. JAMES MURPHY, of Newport, in the County of Monmouthshire, Civil Engineer, for an invention for—"Improvements in wheels used on railways." *Complete specification ; Letters Patent sealed.*
BRUN. 1st January 1858.	3. LOUIS JOSEPH ARSÈNE BRUN, of Paris, in the Empire of France, Merchant, for an invention for—"Improvements in instruments for measuring angles, applicable to nautical and other purposes." *Letters Patent sealed.*
GORLE. 1st January 1858.	4. GEORGE GORLE, of Handsworth, in the County of Stafford, Plumber, for an invention for—"A new or improved service box for water-closets." *Provisional protection only.*
PARKES. PARKES. 1st January 1858.	5. ALEXANDER PARKES, and HENRY PARKES, of Birmingham, for an invention for—"Improvements in the manufacture of rods, wire, nails, and tubes." *Letters Patent sealed.*
CLARE. 1st January 1858.	6. JOHN WILLIAM CLARE, of Surrey Square, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in steam-engines and boilers, part of which improvements is applicable to furnaces." *Letters Patent sealed.*
JOHNSON. 1st January 1858.	7. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in penholders, pencil-cases, and other articles sliding in cases of a like nature."—*A communication from Louis Charles Riattot, of Paris, in the Empire of France, Manufacturer.* *Letters Patent sealed.*
HARVEY. 2nd January 1858.	8. ROBERT HARVEY, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in steam hammers." *Letters Patent sealed.*
SLATE. 2nd January 1858.	9. ARCHIBALD SLATE, of Adelaide Road, Haverstock Hill, in the County of Middlesex, for an invention for—"Improvements in apparatus for supplying fuel to blast furnaces." *Letters Patent sealed.*
SCOTT. 4th January 1858.	10. THOMAS SCOTT, of Drummond Street, Euston Square, in the County of Middlesex, for an invention for—"Improvements in cleaning, separating, and mixing seeds, and in apparatus for those purposes." *Provisional protection only.*
TILLAM. 4th January 1858.	11. EDMOND THOMAS TILLAM, Steward of St. Mary's Hospital, Paddington, in the County of Middlesex, for an invention for—"Improvements in apparatus for ventilating buildings." *Provisional protection only.*
WALTON. 4th January 1858.	12. FREDERICK WALTON, of Haughton Dale Mills, near the City of Manchester, Card Manufacturer, for an invention for—"Improvements in the manufacture of sheets or plates made of plastic compositions and other materials, and in the application thereof, either alone or in combination with other substances, to the manufacture of knife handles, mouldings, artificial veneers, floor cloths, and other ornamental and useful purposes." *Letters Patent sealed.*

KIDDLE. 4th January 1858.	13. EDWARD HAMLIN KIDDLE, of Broad Street, Lambeth, in the County of Surrey, Miller, for an invention for—"Improvements in smut machines." *Provisional protection only.*
ELLIS. ELLIS. 5th January 1858.	14. JAMES ELLIS, and JOSEPH HENRY ELLIS, of Leicester, in the County of Leicester, Coal and Lime Merchants, for an invention for—"Improvements in machinery for subdividing or reducing into small particles masses of rock and minerals." *Letters Patent sealed.*
TWIGG. ADKINS. 5th January 1858.	15. JOHN NORTH WILKINS TWIGG, Commercial Agent, of Coventry, in the County of Warwick, and WILLIAM ADKINS, of Birmingham, in the same County, Linen Draper, for an invention for—"Certain improvements in self-acting railway breaks." *Provisional protection only.*
LEEMING. RAMSDEN. 5th January 1858.	16. JAMES LEEMING, of Bradford, in the County of York, Machine Maker, and JOHN CARTER RAMSDEN, of the same place, Manufacturer, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*
PLATT. 5th January 1858.	17. JOHN PLATT, of Oldham, in the County of Lancaster, Mechanical Engineer, for an invention for—"Improvements in machinery or apparatus for spinning and doubling or twining cotton and other fibrous materials." *Letters Patent sealed.*
DERING. 5th January 1858.	18. GEORGE EDWARD DERING, of Lockleys, in the County of Hertford, for an invention for—"Improvements in electric telegraphs, and in the manufacture of insulated wire and cables." *Letters Patent se ed.*
COCKER. 6th January 1858.	19. THOMAS FILDES COCKER, of Sheffield, in the County of York, Steel File and Wire Manufacturer, for an invention for—"Improvements in the manufacture of wire applicable to umbrellas and parasols, and to articles of dress." *Provisional protection only.*
BROOMAN. 6th January 1858.	20. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"An improved lock buckle."—*A communication from Laurent Courdier, of Dijon.* *Provisional protection only.*
JENNINGS. 6th January 1858.	21. HENRY CONSTANTINE JENNINGS, of No. 8, Great Tower Street, in the City of London, Practical Chemist, for an invention for—"Improvements in the production and application of tannin or tannic acid." *Letters Patent sealed.*
MALCOLM. 6th January 1858.	22. JAMES DRYSDALE MALCOLM, of 47, Leicester Square, for an invention for—"Improvements in apparatus for ornamenting fabrics and other surfaces." *Letters Patent sealed.*
LAVATER. 7th January 1858.	23. MANUEL LEOPOLD JONAS LAVATER, India-rubber Manufacturer, of 23, Holywell Lane, Shoreditch, London, E.C., for an invention for—"The application of the principle of exhausting air as used in plate holders, breast pumps, for pegs." *Letters Patent sealed.*
KIDD. 7th January 1858.	24. JOSHUA KIDD, of 6, Bridge Parade, Bristol, in the County of Somerset, Civil Engineer, for an invention for—"Improved apparatus for regulating the pressure and supply of steam, gas, or other rarefied or compressed bodies, and for causing more perfect combustion of the gases procured from coal, and increasing the heating and illuminating power of the said gases." *Provisional protection only.*
THIRY. 7th January 1858.	25. CHRISTOPHE ADRIEN THIRY, of Paris, in the Empire of France, Merchant, for an invention for—"A new or improved oyster holder." *Provisional protection only.*
CAPPON. 7th January 1858.	26. FRANÇOIS PHILIPPE CAPPON, Watchmaker, of Marans, France, for an invention for—"Self-acting pads for doors, shutters, windows, or other similar shuttings." *Letters Patent sealed.*
REILLY. 7th January 1858.	27. JAMES REILLY, the younger, of the City of Manchester, in the County of Lancaster, Chair Manufacturer, for an invention for—"Improvements in chairs and seats of various descriptions." *Letters Patent sealed.*
GRAHAM. 7th January 1858.	28. ELIZA GRAHAM, of 14, Noel Street, River Terrace, Islington, in the County of Middlesex, for an invention for—"An improved apparatus for threading needles." *Provisional protection only.*

PHILP. PHILP. 7th January 1858.

29. RICHARD PHILP, and JOHN PHILP, of Norwood House, Cheltenham, in the County of Gloucestershire, Civil Engineers, for an invention for—"An improvement in propellers for propelling ships, boats, and other vessels in water." *Letters Patent sealed.*

MAW. 7th January 1858.

30. EDWIN MAW, of the Doncaster Iron Works, Yorkshire, for an invention for—"Improvements in the construction of metallic bedsteads and other surfaces to sit or recline on." *Letters Patent sealed.*

DE WINTON. 7th January 1858.

31. GEORGE JEAN DE WINTON DE WINTON, of the Junior United Service Club, of Charles Street, St. James', Westminster, in the County of Middlesex, Esquire, for an invention for—"Improvements in copying apparatus."—*A communication from Henry Genhart, of Liège, in Belgium.* *Provisional protection only.*

LEES. 8th January 1858.

32. SAMUEL LEES, of Salford, in the County of Lancaster, Manufacturing Chemist, for an Invention for—"Improvements in the manufacture of mineral oil." *Letters Patent sealed.*

RAYMOND. 8th January 1858.

33. HENRY RAYMOND, of Bristol, in the County of Gloucester, Artisan, for an invention for—"Improvements in propelling ships or vessels." *Provisional protection only.*

SOAMES. EVANS. 8th January 1858.

34. PETER SOAMES, and JOHN CAMPBELL EVANS, of the Morden Iron Works, East Greenwich, in the County of Kent, Engineers, for an invention for—"Improvements in steam cranes, parts of which improvements are applicable to the generation of steam." *Letters Patent sealed.*

BROOMAN. 8th January 1858.

35. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention—"A method of and apparatus for teaching music and arithmetic."—*A communication from Mademoiselle Fitton, of Paris.* *Letters Patent sealed.*

ATKINS. 8th January 1858.

36. HENRY ATKINS, of Nottingham, in the County of Nottingham, Lace Manufacturer, for an invention for—"Producing scarfs, neck ties, and other articles from the warp machine." *Letters Patent sealed.*

GREENWOOD. BATLEY. 8th January 1858.

37. THOMAS GREENWOOD, and JOHN BATLEY, of Leeds, in the County of York, Machinists, for an invention for—"Improvements in machinery for heckling flax and other fibrous materials." *Letters Patent sealed.*

BROWN. 9th January 1858.

38. ROBERT BROWN, of the firm of A. and R. Brown, of Liverpool, in the County of Lancaster, Plumbers and Brass Founders, for an invention for—"Improvements in water-closets, parts of which are applicable to pumps." *Provisional protection only.*

CHURCH. 9th January 1858.

39. WILLIAM CHURCH, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in measuring-rules, compasses, and other mathematical instruments, and in machinery to be employed in manufacturing measuring-rules and other mathematical instruments." *Letters Patent sealed.*

ROWELL. 9th January 1858.

40. THOMAS ROWELL, of Sunderland, Engineer, for an invention for—"Improvements in furnaces." *Letters Patent sealed.*

PARSONS. ATTREE. 9th January 1858.

41. WILLIAM PARSONS, and JAMES ATTREE, both of Brighton, in the County of Sussex, Engineers, for an invention for—"An improvement in the measuring of water and other liquids, and an improved water and liquid meter." *Provisional protection only.*

CHAUFOUR. 9th January 1858.

42. JULES ALPHONSE MATHIEU CHAUFOUR, of Paris, in the Empire of France, for an invention for—"Certain improvements in the construction of axle boxes and axle bearings." *Letters Patent sealed.*

TREGASKIS. 11th January 1858.

43. WILLIAM TREGASKIS, 37, St. Andrew's Hill, Thames Street, London, Printer, for an invention for—"Improvements in the printing-press." *Provisional protection only.*

KNOWLES. OGILVIE. 11th January 1858.

44. THOMAS KNOWLES, of Hollingrove, near Bury, in the County of Lancaster, Joiner, and WILLIAM OGILVIE, of the City of Manchester, in the said County, Manufacturer, for an invention for—"Improvements in looms." *Letters Patent sealed.*

TAYLOR. 11th January 1858.

45. ISAAC TAYLOR, of Stanford Rivers, in the County of Essex, for an invention for—"Improvements in manufacturing metallic cylinders used in printing calico and other fabrics, and in imparting engravings to metallic cylinders used for such purposes." *Letters Patent sealed.*

HARTREE. 11th January 1858.

46. WILLIAM HARTREE, of Lewisham Road, in the County of Kent, Engineer, for an invention for—"Improvements in furnaces or fireplaces." *Provisional protection only.*

BENTALL. 12th January 1858.

47. EDWARD HAMMOND BENTALL, of Heybridge, near Maldon, in the County of Essex, Agricultural Implement Manufacturer, for an invention for—"An improved arrangement of portable gearing apparatus for the application of horse power, principally for driving various kinds of agricultural machines or implements." *Letters Patent sealed.*

ROBERT. 12th January 1858.

48. ANDRÉ FRANÇOIS EMILE ROBERT, of Paris, in the French Empire, Merchant, for an invention for—"Improvements in the manufacture of curtains and hangings for walls and other places." *Provisional protection only.*

JOHNSON. 12th January 1858.

49. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in boilers and heating apparatus generally."—*A communication from Edme Augustin Chameroy, of Paris, in the Empire of France, Engineer.* *Provisional protection only.*

GREENWELL. 13th January 1858.

50. GEORGE C. GREENWELL, of Radstock, near Bath, for an invention for—"An improved pigment." *Provisional protection only.*

BARLOW. 13th January 1858.

51. CHARLES BARLOW, of 89, Chancery Lane, London, for an invention for—"An improved registering water meter."—*A communication.* *Letters Patent sealed.*

MUIR. 13th January 1858.

52. GEORGE WALKER MUIR, of Manchester, in the County of Lancaster, for an invention for—"Improvements in warming and ventilating." *Letters Patent sealed.*

BROOMAN. 13th January 1858.

53. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in the preparation of coal and other fuel."—*A communication from A. M. M. de Bergevin and E. C. Salva, of Paris.* *Letters Patent sealed.*

BRIGHT. 13th January 1858.

54. EDWARD BRAILSFORD BRIGHT, of Liverpool, in the County of Lancaster, Gentleman, for an invention for—"Improvements in communicating signals by electricity, and in the apparatuses employed therein." *Letters Patent sealed.*

ROBERTSON. 13th January 1858.

55. PATRICK ROBERTSON, of the American Commercial Agency, 1, Sun Court, Cornhill, for an invention for—"Improvements in inkstands."—*A communication.* *Provisional protection only.*

PARSONS. 13th January 1858.

56. WILLIAM PARSONS, of Pratt Street, Old Lambeth, Manufacturing Engineer, for an invention for—"Improvements in apparatus for supplying water to and for preventing explosions of steam-boilers." *Letters Patent sealed.*

MATSON. 13th January 1858.

57. CHARLES EDWARD MATSON, of Church Street, Deptford, in the County of Kent, Omnibus Proprietor, for an invention for—"Improvements in roughing horses' shoes." *Letters Patent sealed and specification filed, by order.*

COUDER. 13th January 1858.

58. JEAN BAPTISTE AMÉDÉE COUDER, of Paris, in the Empire of France, Artist, for an invention for—"Improvements in shawls." *Letters Patent sealed.*

JEANROY. 14th January 1858.

59. NICOLAS EUGÈNE JEANROY, of 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, E.C., for an invention for—"Improvements in the manufacture of net lace." *Letters Patent sealed.*

WOODCOCK. BLACKBURN. SMALLEY. 14th January 1858.

60. WILLIAM WOODCOCK, and THOMAS BLACKBURN, of Sough, near Blackburn, in the County of Lancaster, and JAMES SMALLEY, of Blackburn, aforesaid, for an invention for—"Improvements in machinery or apparatus for heating and circulating air, to be applied to all purposes where heating is required." *Provisional protection only.*

MANNING. 14th January 1858.

61. JAMES ALEXANDER MANNING, of the Inner Temple, in the County of Middlesex, Esquire, for an invention for—"Improvements in the treatment of sewerage and other polluted liquids." *Provisional protection only.*

BROADLEY. 14th January 1858.

62. JAMES BROADLEY, of Saltaire, near Bradford, in the County of York, Overlooker to Messrs. Titus Salt, Sons, & Co., for an invention for—"Improvements in apparatus used in weaving." *Letters Patent sealed.*

STENSON. 14th January 1858.	**63.** JOSEPH STENSON, of Northampton, in the County of Northampton, Civil Engineer and Iron Manufacturer, for an invention for—"Improvements in the manufacture of wrought iron." *Letters Patent sealed.*
INGLE. 14th January 1858.	**64.** HENRY INGLE, of Shoe Lane, in the City of London, Engineer, for an invention for—"Improvements in printing-machines." *Letters Patent sealed.*
CLARK. 14th January 1858.	**65.** WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Certain improvements applicable to the paying out of submarine or submerged telegraph wires or cables."—*A communication.* *Provisional protection only.*
VARLEY. 15th January 1858.	**66.** JOHN VARLEY, of the Albion Iron Works, Radcliffe, in the County of Lancaster, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*
SCHINZ. 15th January 1858.	**67.** CHARLES SCHINZ, of Camden, New Jersey, in the United States of America, Chemist, for an invention for—"An apparatus for manufacturing prussiate of potash." *Letters Patent sealed; specification filed by order.*
MACINTOSH. 15th January 1858.	**68.** JOHN MACINTOSH, of the City of Aberdeen, North Britain, Engineer, for an invention for—"Improvements in apparatus for the manufacture of articles of confectionery." *Provisional protection only.*
BOWLAS. 15th January 1858.	**69.** DAVID BOWLAS, of Reddish, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in machinery or apparatus for preparing and spinning cotton and other fibrous substances." *Provisional protection only.*
MENNONS. 16th January 1858.	**70.** MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, E.C., for an invention for—"Certain improvements in gas retorts."—*A communication.* *Complete specification; Letters Patent sealed.*
BADGE. 16th January 1858.	**71.** RICHARD JOHN BADGE, of Newton Heath, near Manchester, in the County of Lancaster, Storekeeper to the Lancashire and Yorkshire Railway Company, for an invention for—"Improvements in machinery or apparatus for drawing or extracting spikes or trenails from railway sleepers and chairs, and other similar purposes." *Letters Patent sealed.*
AUSTIN. 16th January 1858.	**72.** JAMES AUSTIN, of Millisle Mills, Donaghadee, in the County of Down, Ireland, Bookkeeper, for an invention for—"Improvements in machinery or apparatus for ploughing or cultivating land." *Letters Patent sealed.*
ARCHIBALD. 16th January 1858.	**73.** ROBERT ARCHIBALD, of Devon Vale, Tillicoultry, in the County of Clackmannan, North Britain, Manufacturer, for an invention for—"Improvements in the treatment or preparation of wool and other fibrous materials for being spun." *Letters Patent sealed.*
MACBETH. 16th January 1858.	**74.** GEORGE MACBETH, of Manchester, in the County of Lancaster, Tailor and Woollen Draper, for an invention for—"A certain improvement applicable to sewing-machines." *Provisional protection only.*
HYDE. 16th January 1858.	**75.** FREDERICK HYDE, of Glossop, in the County of Derby, Mechanic, for an invention for—"Improvements in machinery or apparatus for spinning, doubling, twisting, or throwing cotton, silk, wool, flax, and other fibrous substances." *Provisional protection only.*
HILLS. 16th January 1858.	**76.** EDWARD HILLS, of Warsash, in the Parish of Titchfield, in the County of Southampton, Merchant, for an invention for—"An improved process for manufacturing sulphate of ammonia." *Letters Patent sealed.*
ROBERTSON. 16th January 1858.	**77.** PATRICK ROBERTSON, of Sun Court, Cornhill, in the City of London, for an invention for—"Improvements in lamps."—*A communication.* *Provisional protection only*
DE LA BROSSE. 16th January 1858.	**78.** CHARLES AMEDÈE DE LAIRE DE LA BROSSE, of Paris, in the empire of France, Gentleman, for an invention for—"Improvements in apparatus or machinery for the manufacture of looped or knitted fabrics."—*A communication.* *Letters Patent sealed.*
ROSA. 16th January 1858.	**79.** EDWARD ROSA, of Edinburgh, in the County of Midlothian, North Britain, Chiropodist, for an invention for—"Improvements in the manufacture of dough and other plastic or porous substances." *Provisional protection only.*

BROOMAN.
18th January 1858.

80. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in machinery for the manufacture of pipes and tubes."—*A communication.* *Letters Patent sealed.*

HAMILTON.
HAMILTON.
19th January 1858.

81. THOMAS HAMILTON, of Glasgow, in the County of Lanark, North Britain, and JAMES HAMILTON, of the same place, Bobbin Turners, for an invention for—"Improvements in holders or bobbins for holding or containing yarn or thread, and in turning, cutting, shaping, and reducing wood, and other substances." *Letters Patent sealed.*

WALKER.
WALKER.
19th January 1858.

82. ANDREW WALKER, of Shotts, in the County of Lanark, N. B., Moulder, and THOMAS WALKER, of the same place, Pattern Maker, for an invention for—"Improvements in the treatment or preparation of moulds for casting metals." *Letters Patent sealed.*

WILSON.
19th January 1858.

83. EDWARD WILSON, of 9, Rainbow Terrace, Worcester, for an invention for—"Improvements in pistons for steam-engines driven by steam or any other elastic fluid, which improvements are also applicable to the pistons or plungers of pumps." *Letters Patent sealed.*

WALLER.
19th January 1858.

84. WILLIAM WALLER, of Uddingston, near Glasgow, Mechanical Engineer, for an invention for—"Improvements in machinery for grinding, bruising, breaking, and cutting cereals, grasses, and other vegetable substances." *Letters Patent sealed.*

WALLER.
19th January 1858.

85. WILLIAM WALLER, of Uddingston, near Glasgow, Mechanical Engineer, for an invention for—"Improvements in thrashing-machines or machinery for thrashing and dressing grain." *Letters Patent sealed.*

DE TIVOLI.
19th January 1858.

86. VITAL DE TIVOLI, of 67, Lower Thames Street, London, for an invention for—"An improved omnibus." *Letters Patent sealed.*

BRUFF.
19th January 1858.

87. PETER SCHUYLER BRUFF, of Ipswich, in the County of Suffolk, Civil Engineer, for an invention for—"Improvements in the construction of submerged tunnels." *Provisional protection only.*

TREMESCHINI.
19th January 1858.

88. GUISEPPE ANTONIO TREMESCHINI, Mechanician, of Vicenza (Venetian Lombardy), for an invention for—"Improved methods and mechanical arrangements for applying cardboard to the weaving of figured fabrics, and for arranging the cardboard for this purpose." *Letters Patent sealed.*

WELLS.
19th January 1858.

89. BENJAMIN BLAKE WELLS, of the Strand, in the City of Westminster, Cutler, for an invention for—"Improvements in ordnance." *Letters Patent sealed.*

JOHNSON.
19th January 1858.

90. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the boxes and journals of carriage wheels and axles, and in journals and bearings generally."—*A communication from Isaac P. Wendall, and Jacob L. Wendall, both of Philadelphia, in the State of Pennsylvania, United States of America.* *Provisional protection only.*

PIRIE.
19th January 1858.

91. THOMAS PIRIE, of Nether Kinmundy, Parish of Longside by Mintlaw, in the County of Aberdeen, North Britain, Agricultural Implement Maker, for an invention for—"Improvements in machinery or apparatus for thrashing or separating grain." *Letters Patent sealed.*

CAPON.
19th January 1858.

92. PHILIP CAPON, of Chancery Lane, in the County of Middlesex, Bookbinder, for an invention for—"Improvements in apparatus for binding together pamphlets, letters, music, and other loose documents or sheets." *Provisional protection only.*

VON CORVIN.
19th January 1858.

93. OTTO VON CORVIN, of Alfred Place, Alexander Square, Brompton, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the mode of inlaying or ornamenting in metals and other materials." *Letters Patent sealed.*

NIXON.
20th January 1858.

94. CHRISTOPHER NUGENT NIXON, of Ramsgate, in the County of Kent, Gentleman, for an invention for—"Improvements in the application of screw power, such improvements being applicable to steering-apparatus, capstans, windlasses, cranes, winches, and other mechanical purposes." *Letters Patent sealed.*

MARTIN.
20th January 1858.

95. ROBERT MARTIN, of Glasgow, in the County of Lanark, North Britain, Superintendent of the General Terminus and Glasgow Harbour Railway, for an invention for—"Improvements in machinery or apparatus for effecting the shipping of minerals in tidal situations." *Letters Patent sealed.*

HEPPLESTON. 20th January 1858.

98. THOMAS HEPPLESTON, of Manchester, in the County of Lancaster, Machine Maker, for an invention for—"Certain improvements in machinery or apparatus for winding yarns or threads." *Letters Patent sealed.*

MUIR. 20th January 1858.

97. WILLIAM MUIR, of Strangeways, in the City of Manchester, Engineer, for an invention for—"Improvements in stands for letter-copying presses and other small machines." *Letters Patent sealed.*

DAVAGE. DAVAGE. 20th January 1858.

98. CHARLES DAVAGE, and THOMAS DAVAGE, Steel Forgemen, of Wadsley Bridge, Sheffield, in the County of York, for an invention for—"Improvements in railway crossings." *Provisional protection only.*

DYSON. SHIRT. SHIRT. 20th January 1858.

99. JOHN DYSON, EDWIN WILKINSON SHIRT, and HENRY SHIRT, trading under the style or firm of Dyson, Shirt and Company, Steel Rollers, of Tinsley Works, near Sheffield, in the County of York, for an invention for—"An improved construction of spring for resisting sudden and continuous pressure." *Provisional protection only.*

RISHWORTH. 20th January 1858.

100. CHARLES RISHWORTH, of Sheffield, in the County of York, Railway Spring Maker, for an invention for—"An improved construction of spring for sustaining loads and moderating concussion." *Letters Patent sealed.*

BROOMAN. 20th January 1858.

101. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in the preservation of animal and vegetable substances."—*A communication from Gabriel Blondin.* *Letters Patent sealed.*

RUSSELL. 20th January 1858.

102. JOHN JAMES RUSSELL, of Wednesbury, in the County of Stafford, Iron Tube Manufacturer, for an invention for—"Improvements in apparatus used in the manufacture of welded tubes." *Letters Patent sealed.*

CONISBEE. 20th January 1858.

103. WILLIAM CONISBEE, of King Street, Queen Street, Southwark Bridge Road, for an invention for—"Improvements in printing-machines." *Letters Patent sealed.*

ROBERTSON. 20th January 1858.

104. PATRICK ROBERTSON, of the American Commercial Agency, 1, Sun Street, Cornhill, for an invention for—"Improvements in the manufacture of paints."—*A communication.* *Letters Patent sealed.*

WHEATLEY. 21st January 1858.

105. JAMES HENRY WHEATLEY, of 15, Jacob's Well, Barbican, City, for an invention for—"Improvements in printing-machines." *Provisional protection only.*

WHITE. 21st January 1858.

106. WILLIAM WHITE, of Adelaide Street, South Shields, in the County of Durham, Iron Founder, for an invention for—"Improvements in machinery or apparatus for making moulds or matrices employed in casting metals." *Letters Patent sealed.*

IVORY. 21st January 1858.

107. THOMAS IVORY, of Edinburgh, Advocate, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

ROBINSON. 21st January 1858.

108. JOHN JOSHUA ROBINSON, of Fratton, near Portsea, in the County of Hants, Schoolmaster, for an invention for—"Improved apparatus for sorting and stamping letters, books, newspapers, and other articles." *Provisional protection only.*

MURDOCH. 21st January 1858.

109. JAMES MURDOCH, of 7, Staple Inn, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in breaks for railway and other carriages."—*A communication from J. H. Clement, of Paris (France).* *Provisional protection only.*

WILSON. NORTHALL. JAMES. 21st January 1858.

110. PETER WILSON, of Birmingham, in the County of Warwick, Locksmith, and SAMUEL NORTHALL, of Birmingham, aforesaid, Ironmonger, and THOMAS JAMES, of Birmingham, aforesaid, Retail Brewer, for an invention for—"Improvements in locks and latches." *Letters Patent sealed.*

RAWLINS. BRIDEN. 21st January 1858.

111. EDWARD RAWLINS, of Birmingham, in the County of Warwick, Manufacturer, and JOHN BRIDEN, of Aston-juxta-Birmingham, in the County of Warwick Machinist, for an invention for—"A new or improved method of working stamps used for stamping or raising metals and other such like purposes." *Provisional protection only.*

SMITH. 21st January 1858.

112. HENRY SMITH, of Brierley Hill Iron Works, Dudley, in the County of Worcester, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of iron hurdles and fencing." *Letters Patent sealed.*

BROWN.
21st January 1858.

113. JOHN STAITE BROWN, of Cirencester, in the County of Gloucester, Miller, for an invention for—"Improvements in mills for grinding corn or other substances." *Letters Patent sealed.*

CLARK.
21st January 1858.

114. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in lubricating apparatus."—*A communication.* *Letters Patent sealed.*

HERMAGIS.
21st January 1858.

115. HYACINTHE HERMAGIS, of Paris, in the Empire of France, Optician, for an invention for—"Improvements in stereoscopes." *Provisional protection only.*

RAINE.
22nd January 1858.

116. WILLIAM MATTHEW RAINE, of 34, Bucklersbury, in the City of London, Gas Fitter, for an invention for—"Purifying and increasing the illuminating power of gas." *Provisional protection only.*

HAIGH.
CHEETHAM.
22nd January 1858.

117. WILLIAM BLACKETT HAIGH, of Oldham, in the County of Lancaster, Machine Maker, and JOSEPH CHEETHAM, of the same place, Cotton Spinner, for an invention for—"Improvements in valves for steam-engines, and in superheating the steam." *Provisional protection only.*

BROWN.
22nd January 1858.

118. JAMES BROWN, of Coventry, in the County of Warwick, Ribbon Designer, for an invention for—"Certain improvements in looms." *Letters Patent sealed.*

BROWN.
22nd January 1858.

119. JAMES BROWN, of Coventry, in the County of Warwick, Ribbon Designer, for an invention for—"Certain improvements in jacquard machines." *Letters Patent sealed.*

BASFORD.
22nd January 1858.

120. WILLIAM BASFORD, of Longport, in the County of Stafford, Brick and Tile Manufacturer, for an invention for—"Improvements in kilns or ovens for burning or firing bricks, tiles, pipes, and pottery or earthenware, and in the mode of charging the ovens or placing or setting the articles that are to be fired therein." *Letters Patent sealed.*

STERRY.
22nd January 1858.

121. ALFRED STERRY, of the Gorwydd Colliery, Swansea, for an invention for—"Improvements in safety lamps." *Letters Patent sealed.*

WEILD.
22nd January 1858.

122. WILLIAM WEILD, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery for winding yarn or thread on to bobbins, spools, cards, or other similar surfaces." *Letters Patent sealed.*

MELLOR.
22nd January 1858.

123. THOMAS WALTON MELLOR, of Ashton-under-Lyne, in the County of Lancaster, Cotton Spinner, for an invention for—"An improved apparatus for measuring water and other fluids." *Provisional protection only.*

DROUET.
LE COQ.
23rd January 1858.

124. NICHOLAS AUGUSTIN DROUET, Chemist, PIERRE PHILIPPE LE COQ, Gentleman, both of Paris, France, for an invention for—"Improvements in treating chloride of sodium for obtaining therefrom certain useful products." *Provisional protection only.*

VASSEROT.
23rd January 1858.

125. CHARLES FRÈDERICK VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"A single and double acting machine with electro-magnetic motive-power."—*A communication from Messrs. Bouvery and Crestin, of Lyons, in the Empire of France.* *Provisional protection only.*

SAMWELLS.
JONES.
PICKARD.
23rd January 1858.

126. JOHN SAMWELLS, of Dunstable, in the County of Bedford, Hat Manufacturer, CHARLES HENRY JONES, of Leeds, in the County of York, Engineer, and CHRISTOPHER PICKARD, of Leeds, aforesaid, Engineer, for an invention for—"Improvements in blocking and shaping hats, bonnets, and other coverings for the head." *Provisional protection only.*

GORDON.
23rd January 1858.

127. JOHN GORDON, of 3, Railway Place, Fenchurch Street, in the City of London, Engineer, for an invention for—"Improvements in machinery or apparatus for pulping coffee." *Letters Patent sealed and specification filed, by order.*

JOHNSTON.
23rd January 1858.

128. JAMES JOHNSTON, of Paisley, in the County of Renfrew, North Britain, Manufacturer, for an invention for—"Improvements in bonnets, caps, and other coverings for the head." *Letters Patent sealed.*

BURN.
23rd January 1858.

129. CHARLES BURN, of Blomfield Crescent, Westbourne Terrace, Paddington, for an invention for—"Improvements in the manufacture of iron cables and chains, which improvements are applicable to the manufacture of gold and other chains." *Provisional protection only.*

CRAVEN. HEY. WORSNOP. 23rd January 1858.

130. JONAS CRAVEN, of Bradford, in the County of York, Designer, WIGNALL HEY, of Manningham, near Bradford, aforesaid, Mechanic, and CHARLES WORSNOP, also of the aforesaid Manningham, Overlooker, for an invention for—"Improvements in actuating rotary shuttle boxes of looms." *Letters Patent sealed.*

SLACK. 23rd January 1858.

131. ELIJAH SLACK, of Glasgow, in the County of Lanark, North Britain, Manufacturing Chemist, for an invention for—"Improvements in the treatment or preservation of potatoes and other amylaceous vegetable substances." *Provisional protection only.*

WELCH. MARGETSON. 23rd January 1858.

132. JOSEPH JAMES WELCH, and JOHN STEWART MARGETSON, of Cheapside, in the City of London, for an invention for—"An improved expanding or folding travelling bag or wallet." *Letters Patent sealed.*

HUBER. 23rd January 1858.

133. JEAN JACQUES HUBER, of No. 14, Boulevart Montmartre, Paris, Jeweller, for an invention for—"Improvements in the construction of brooches, bracelets, pins, and other articles of jewelry." *Letters Patent sealed.*

WALL. 25th January 1858.

134. ARTHUR WALL, of the East India Road, Poplar, in the County of Middlesex, Chemist, for an invention for—"An improved lubricator for the moving parts of machinery." *Letters Patent sealed.*

DERING. 25th January 1858.

135. GEORGE EDWARD DERING, of Lockleys, in the County of Hertford, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

GARNETT. GARNETT. 26th January 1858.

136. JEREMIAH GARNETT, of Otley, in the County of York, Paper Manufacturer, and PETER GARNETT, Junior, of Cleckheaton, in the same County, Machine Maker, for an invention for—"Improvements in the manufacture of felt." *Letters Patent sealed.*

HILL. 26th January 1858.

137. PEARSON HILL, of Hampstead in the County of Middlesex, for an invention for—"Improvements in machinery for making cams, and for cutting and shaping metals and other materials." *Provisional protection only.*

STRACEY. 26th January 1858.

138. SIR HENRY STRACEY, of Rackheath Hall, in the County of Norfolk, Baronet, for an invention for—"An improved cartridge." *Letters Patent sealed.*

SIMCOX. 26th January 1858.

139. GEORGE PRICE SIMCOX, of Hendham Vale Works, Harpurhey, near Manchester, in the County of Lancaster, Carpet Manufacturer, for an invention for—"The application of certain materials in the manufacture of carpets." *Provisional protection only.*

NEWTON. 26th January 1858.

140. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"A new or improved fabric intended principally as a substitute for leather."—*A communication.* *Letters Patent sealed.*

NEWTON. 26th January 1858.

141. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for mining coal and other mineral substances."—*A communication.* *Provisional protection only.*

CORBELLI. 26th January 1858.

142. LUIGI FERRARI CORBELLI, of Florence, in the Grand Duchy of Tuscany, Commander of the Order of Malta, for an invention for—"A new or improved process for obtaining aluminum."—*Partly a communication from Vincent Riatti, of Modena.* *Letters Patent sealed.*

HIRST. 26th January 1858.

143. WILLIAM DAVIS HIRST, of Mount Street, Grosvenor Square, in the County of Middlesex, for an invention for—"A stand for soda-water bottles and other bottles of a similar form." *Provisional protection only.*

HARTHAN. HARTHAN. 26th January 1858.

144. JOHN HARTHAN and EZRA HARTHAN, both of Timbersbrook, near Congleton, in the County of Chester, Silkmen, for an invention for—"An improved engine for obtaining motive-power." *Letters Patent sealed.*

HEATON. HEATON. 26th January 1858.

145. RALPH HEATON, the younger, of Birmingham, in the County of Warwick, Manufacturer, and GEORGE HEATON, of Birmingham, aforesaid, Manufacturer, for an invention for—"An improvement or improvements in annealing metals." *Provisional protection only.*

MOTTRAM. EDWARDS. MITCHELL. 27th January 1858.

146. THOMAS MOTTRAM, JOHN EDWARDS, and JOSEPH MITCHELL, in the County of York, Engineers, Rollers, and Cutlers, for an invention for—"Rolling steel, iron, and other metals, and also for tilting the same, for cutlery and other purposes." *Provisional protection only.*

BIRD. 27th January 1858.

147. ARTHUR BIRD, of Birmingham, in the County of Warwick, Upholsterer, for an invention for—"A new or improved spring platform or mattress for bedsteads and other articles used for sitting, lying, or reclining upon." *Letters Patent sealed.*

WAINWRIGHT. 27th January 1858.

148. GEORGE JAMES WAINWRIGHT, of Dukinfield, in the County of Chester, Cotton Spinner, for an invention for—"Improvements in drawing fibrous materials." *Provisional protection only.*

MIDGLEY. 27th January 1858.

149. JOHN WIGNALL MIDGLEY, of Keighley, in the County of York, Mechanic, for an invention for—"An improved construction of covered roller to be used in preparing and spinning machinery." *Letters Patent sealed.*

NAPIER. THORBURN. 23th January 1858.

150. JAMES MURDOCH NAPIER, of Vine Street, York Road, in the County of Surrey, Engineer, and WILLIAM THORBURN, of 19, Sussex Place, Vine Street, York Road, aforesaid, for an invention for—"Improvements in machinery for planing, shaping, and slotting." *Provisional protection only.*

KOTTULA. 28th January 1858.

151. CONSTANTINE NICOLAUS KOTTULA, of Liverpool, in the County of Lancaster, Soap Manufacturer, for an invention for—"Improvements in the manufacture of neutral soap." *Letters Patent sealed.*

BUSSI. 28th January 1858.

152. PETER BUSSI, of Milan, resident in London, 38, Cannon Street, for an invention for—"An improved railway carriage."—*A communication from Charles Perratone.* *Letters Patent sealed.*

CAEMMERER. 28th January 1858.

153. LOUIS CAEMMERER, of Ghent, in the Kingdom of Belgium, Mechanician, for an invention for—"Improvements in the apparatus for cleaning the top rollers and fluted rollers of the different spinning-machines." *Letters Patent sealed.*

SPENCE. 28th January 1858.

154. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"An improved pot for chimneys and ventilation."—*A communication.* *Letters Patent sealed.*

LIOUVIL. 28th January 1858.

155. EDMOND LIOUVIL, Gentleman, of Paris, France, for an invention for—"Improvements in apparatus for aërated liquids." *Provisional protection only.*

JOHNSON. 28th January 1858.

156. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of metal pipes and in the apparatus employed therein."—*A communication from Charles Felix Sibelle, of Nantes, in the Empire of France, Engineer.* *Letters Patent sealed.*

ARMITAGE. 28th January 1858.

157. THOMAS ARMITAGE, of Hood Street, Coventry, in the County of Warwick, Elastic Web Manufacturer, for an invention for—"Improvements in elastic fabrics." *Letters Patent sealed.*

FOX. 29th January 1858.

158. WILLIAM TRELEAVEN FOX, of Birkenhead, in the County of Chester, Master Mariner, for an invention for—"Improvements in the bending and reefing of ships' and other vessels' sails, together with a new application for the leeches and foot." *Letters Patent sealed; specification filed by order.*

BETHELL. 29th January 1858.

159. JOHN BETHELL, of No. 8, Parliament Street, Westminster, Gentleman, for an invention for—"Improvements in the manufacture of coke and fuel." *Letters Patent sealed.*

TOOTH. 29th January 1858.

160. WILLIAM HENRY TOOTH, of 9, Sumner Street, Southwark, in the County of Surrey, Engineer and Ironfounder, for an invention for—"Improvements in polishing plate glass, sheet glass, and other substances." *Provisional protection only.*

HAMMOND. 29th January 1858.

161. EDWARD HAMMOND, of No. 90 and 91, Herbert Street, Hoxton, in the Parish of Shoreditch, and County of Middlesex, for an invention for—"The manufacture of cap fronts, and applicable to the manufacture of ruches, ribbon trimmings, and other articles of millinery." *Letters Patent sealed and specification filed, by order.*

ELDER.
29th January 1858.

162. JOHN ELDER, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in the arrangement or construction of steam-engines and boilers." *Letters Patent sealed.*

CHAPMAN.
29th January 1858.

163. GEORGE CHAPMAN, of the Firm of Pegg and Chapman, of Leicester, in the County of Leicester, Manufacturers, for an invention for—"An improvement in socks, drawers, and other garments made of knitted fabrics." *Provisional protection only.*

BROOMAN.
29th January 1858.

164. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in apparatus for measuring water, gas, and other fluids."—*A communication from E. A. Chameroy, junior.* *Letters Patent sealed.*

WEARE.
29th January 1858.

165. ROBERT WEARE, of Plumstead, in the County of Kent, for an invention for—"Improvements in galvanic batteries." *Letters Patent sealed.*

WOTHERSPOON.
29th January 1858.

166. JAMES WOTHERSPOON, of Glengarnock Iron Works, in the County of Ayr, North Britain, Smith, for an invention for—"Improvements in railway brakes." *Letters Patent sealed.*

GOODWIN.
29th January 1858.

167. JAMES GOODWIN, of Milton, in the County of Stirling, North Britain, Dyer, for an invention for—"Improvements in the treatment, preparation, and cleansing of textile fabrics and materials." *Provisional protection only.*

HART.
29th January 1858.

168. HERBERT WILLIAM HART, of Birmingham, in the County of Warwick, Gas Engineer, for an invention for—"Improvements in regulating the pressure of gas." *Letters Patent sealed.*

KAYE.
KAYE.
30th January 1858.

169. WILLIAM KAYE, and CHARLES KAYE, of Lockwood, near Huddersfield, in the County of York, Wheelwrights and Implement Makers, for an invention for—"Improvements in mattocks, picks, hoes, hammers, and similar implements and tools." *Letters Patent sealed.*

NICOL.
30th January 1858.

170. GEORGE GARDEN NICOL, of 37, New Broad Street, in the City of London, Agent, for an invention for—"Improvements in balls or projectiles."—*A communication from A. M. Aitken, of Singapore.* *Provisional protection only.*

NIELLON.
30th January. 1858.

171. CHARLES NIELLON, of 50, Lime Street, in the City of London, for an invention for—"Improvements in the manufacture of manure from sewage waters." *Provisional protection only.*

NEWLING.
30th January 1858.

172. JOHN NEWLING, of Park Street, Grosvenor Square, London, Surgical Instrument Maker, for an invention for—"An improved truss for hernia." *Letters Patent sealed.*

COLEMAN.
30th January 1858.

173. RICHARD COLEMAN, of Chelmsford, in the County of Essex, Agricultural Implement Maker, for an invention for—"Improvements in agricultural implements." *Letters Patent sealed.*

BOUCK.
30th January 1858.

174. JOHN AUGUSTUS BOUCK, of Manchester, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of sulphate of copper, and in obtaining certain useful products from such manufacture." *Provisional protection only.*

TAYLOR.
TAYLOR.
NELSON.
SPENCER.
30th January 1858.

175. THOMAS TAYLOR, the elder, and THOMAS TAYLOR, the younger, of the Patent Saw Mills, Manchester, in the County of Lancaster, HENRY NELSON, of the same place, Machinist, and HENRY SPENCER, of Rochdale, in the same County, Agent, for an invention for—"Improvements in steam-engines and apparatus connected therewith." *Letters Patent sealed.*

ASHCROFT.
30th January 1858.

176. PETER ASHCROFT, Engineer to the South Eastern Railway, for an invention for—"An improved mode of supporting the rails of railways in their chairs." *Letters Patent sealed.*

HEPPLESTON.
1st February 1858.

177. THOMAS HEPPLESTON, of Manchester, in the County of Lancaster, Machine Maker, for an invention for—"Certain improvements in machinery or apparatus for doubling, twisting, and reeling yarns or threads." *Provisional protection only.*

HALL.
1st February 1858.

178. WILLIAM KEMBLE HALL, Engineer, of 36, Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of artificial leather." *Provisional protection only.*

MANNING.
1st February 1858.

179. JAMES ALEXANDER MANNING, of the Inner Temple, in the County of Middlesex, Esquire, for an invention for—"Improvements in the manufacture or production of manure." *Letters Patent sealed.*

BARTHOLOMEW.
1st February 1858.

180. GEORGE BARTHOLOMEW, of the Town and County of Linlithgow, North Britain, Edge Tool Maker, for an invention for—"Improvements in horse-shoes and in attaching the same to the horses' feet." *Letters Patent sealed.*

CHILDS.
1st February 1858.

181. JAMES CHILDS, of Belmont, Vauxhall, in the County of Surrey, for an invention for—"An improvement in the manufacture of the boxes or cases used for night lights." *Letters Patent sealed.*

NEWTON.
1st February 1858.

182. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved, clasp or fastening for joining the ends of belts or bands."—*A communication.* *Letters Patent sealed.*

HASTE.
1st February 1858.

183. JOSIAH HASTE, of New Dock Works, Leeds, in the County of York, Mechanical Engineer, for an invention for—"Improved apparatus for preventing the explosion of steam-boilers." *Letters Patent sealed.*

BROOMAN.
1st February 1858.

184. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in burners for generating and burning gas from hydrocarbon fluids."—*A communication.* *Letters Patent sealed.*

BROOMAN.
1st February 1858.

185. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in sewing machines."—*A communication.* *Letters Patent sealed.*

HAY.
1st February 1858.

186. WILLIAM JOHN HAY, of Southsea, in the County of Hants, Experimental Chemist, for an invention for—"An improved composition suitable for covering the caulking of ships and other like purposes, for uniting wood and other substances, for filling up seams, and for use as a waterproof composition generally." *Letters Patent sealed.*

HOLMES.
HOLLINSHEAD.
2nd February 1858.

187. WILLIAM CARTWRIGHT HOLMES, and WILLIAM HOLLINSHEAD, of Huddersfield, in the County of York, Gas Engineers, for an invention for—"Improvements in the manufacture of gas and in apparatus employed therein." *Letters Patent sealed.*

NEWTON.
2nd February 1858.

188. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in obtaining certain compounds of nitrogen, to be applied in the composition of artificial manures and for other useful purposes."—*A communication.* *Letters Patent sealed.*

NEWTON.
2nd February 1858.

189. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved instrument for sharpening the blades of knives."—*A communication.* *Provisional protection only.*

SHOLL.
2nd February 1858.

190. JAMES SHOLL, of Victoria Grove West, Stoke Newington, in the County of Middlesex, Ink Manufacturer, for an invention for—"Improvements in the manufacture or preparation of paper for writing and copying purposes." *Letters Patent sealed.*

WESTLEY.
2nd February 1858.

191. WILLIAM WESTLEY, Boot and Shoe Manufacturer, of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in the construction of heels for boots and shoes." *Provisional protection only.*

GRAY.
2nd February 1858.

192. JOHN GRAY, of Bonally Tower, Colinton, near Edinburgh, Newspaper Proprietor and Publisher of the North British Advertiser, for an invention for—"Improvements in printing-machinery." *Letters Patent sealed.*

MOSS.
3rd February 1858.

193. EDMUND MOSS, of the City of Manchester, Machinist, for an invention for—"Improvements in weighing-cranes." *Provisional protection only.*

MORRIS.
3rd February 1858.

194. JOHN MORRIS, of Red House, Great Bridge, in the County of Stafford, Boot and Shoe Manufacturer, for an invention for—"An improvement or improvements in boots and shoes." *Provisional protection only.*

HOLLIS. LEE. 3rd February 1858.

195. ALFRED HOLLIS, and STEPHEN LEE, both of Darlington, in the County of Durham, Engineers, for an invention for—"Improvements in the construction of chaldron waggon and other railway wheels." *Letters Patent sealed.*

ARMANI. 3rd February 1858.

196. ANTHONY NICHOLAS ARMANI, of Haverstock Hill, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in rail or tramways for streets and ordinary roads." *Provisional protection only.*

DILLAGE. 3rd February 1858.

197. ERNEST FRANÇOIS DILLAGE, of 14, Boulevart Poissonniere, Paris, France, Manager of the Continual Motion Hydraulic and Atmospherical Apparatus on Lassere's System Company, acting on behalf of the said Company, for an invention for—"Improvements in machinery or apparatus for raising, forcing, and exhausting fluids, air, and gases."—*A communication from the said Society or Company.* *Letters Patent sealed.*

NEWTON. 3rd February 1858.

198. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for raising and lowering the skirts of ladies' dresses."—*A communication from Louis Amable François Dyamet, of Paris, in the Empire of France, Manufacturer.* *Provisional protection only.*

DE LA MAGDELEINE. 3rd February 1858.

199. LEON SALLES DE LA MAGDELEINE, Gentleman, of Paris (France), for an invention for—"An improved manure." *Provisional protection only.*

TOUCHE. 3rd February 1858.

200. VICTOR TOUCHE, of 100, Great Titchfield Street, in the County of Middlesex, for an invention for—"Improvements in the manufacture of paper." *Provisional protection* NOT *granted.*

LONGLEY. 3rd February 1858.

201. WILLIAM LONGLEY, of Erith, in the County of Kent, Miller, for an invention for—"Improvements in apparatus for grinding and splitting grain." *Provisional protection only.*

CLARK. 3rd February 1858.

202. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improved hydraulic apparatus for obtaining motive-power."—*A communication from Clément Rostaing, Mechanician, of Lyons, France.* *Provisional protection only.*

HARRISON. 4th February 1858.

203. JOSEPH HARRISON, of Brailsford, in the County of Derby, Farmer, for an invention for—"Improvements in apparatus for making cheese."—*Letters Patent sealed.*

HARLAND. 4th February 1858.

204. ROBERT HARLAND, of Derby, in the County of Derby, Carriage Superintendent, for an invention for—"Improvements in the break lever guard of railway trucks." *Letters Patent sealed.*

SMITHIES. 4th February 1858.

205. DAVID SMITHIES, of the City of Manchester, Heald Knitter, for an invention for—"Improvements in the manufacture of healds or harness for weaving." *Provisional protection only.*

BEALE. 4th February 1858.

206. BENJAMIN BEALE, of Greenwich, in the County of Kent, Engineer, for an invention for—"Improvements in apparatus for paying out and drawing in electric telegraph cables, applicable also to the raising and lowering of weights." *Provisional protection only.*

AVERY. 4th February 1858.

207. JOHN AVERY, of 32, Essex Street, Strand, in the County of Middlesex, Patent Agent, for an invention for—"An improvement in mechanical movements for sewing and other machines."—*A communication from James Hanley, of New York, United States.* *Provisional protection only.*

WILLIAMS. 4th February 1858.

208. DAVID WILLIAMS, of Tredegar, in the County of Monmouth, in South Wales, Miner, for an invention for—"Improvements in the construction of ovens or furnaces for the manufacture of coke, and in the means of emptying or discharging the same." *Letters Patent sealed; no specification filed.*

BERTRAM. M'NIVEN. 4th February 1858.

209. GEORGE BERTRAM, of Edinburgh, in the County of Midlothian, Engineer, and WILLIAM M'NIVEN, Polton Mill, Lasswade, in the same County, Manager, for an invention for—"Improvements in the manufacture of paper."—*Letters Patent sealed.*

KNIGHT. 4th February 1858.

210. CHARLES KNIGHT, of St John's Wood, in the County of Middlesex, for an invention for—"An improved railway guide." *Provisional protection only.*

GOODMAN. GOODMAN. 4th February 1858.

211. JULIUS GOODMAN, and LOUIS GOODMAN, both of Finsbury Street, Finsbury Square, in the City of London, for an invention for—"An improved portable umbrella." *Provisional protection only.*

RHODES. NAPIER. 4th February 1858.

212. WILLIAM RHODES, of the City of Manchester, in the County of Lancaster, Oil Refiner, and HENRY NAPIER, of the City of Brooklyn, in the State of New York, in the United States of America, Manufacturing Chemist, for an invention for—"The production of a new paint oil." *Letters Patent sealed.*

CRICHTON. WHITEHILL. 5th February 1858.

213. ALEXANDER CRICHTON, and MATTHEW WHITEHILL, both of Paisley, in the County of Renfrew, North Britain, Manufacturers, for an invention for—"Improvements in the application, adaptation, and use of knitted fabrics." *Letters Patent sealed.*

COLLINGWOOD. COLLINGWOOD. 5th February 1858.

214. EDWARD COLLINGWOOD, Watchmaker, and THOMAS COLLINGWOOD, Surgeon, both of Rochdale, in the County of Lancaster, for an invention for—"Certain improvements in machinery or apparatus for propelling vessels on water." *Letters Patent sealed.*

WOODWARD. PERCY. 5th February 1858.

215. ADAM WOODWARD, Engineer, and WILLIAM CARTER STAFFORD PERCY, Machinist, both of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements applicable to hoists and other apparatus or machinery for raising and lowering weights, designed as a provision against accidents to which such apparatus or machinery is liable." *Provisional protection only.*

WELCH. 5th February 1858.

216. JAMES WELCH, of Southall, in the County of Middlesex, for an invention for—"Improvements in railway and other carriage breaks." *Letters Patent sealed.*

SHAW. 5th February 1858.

217. SIR CHARLES SHAW, of Chapel Place, Cavendish Square, in the County of Middlesex, for an invention for—"Improvements in constructing moveable or field batteries." *Letters Patent sealed.*

WILLIAMSON. 5th February 1858.

218. SAMUEL WILLIAMSON, of Hanover Street, Cork, in the County of the Town of Cork, Tin Plate Worker and Japanner, for an invention for—"Improvements in the construction and mode of affixing street and other gas lamps or lanterns." *Letters Patent sealed.*

DYER. 5th February 1858.

219. SAMUEL DYER, of the City of Bristol, late Ship Owner, at present Master Mariner, for an invention for—"Improvements in the method of reefing, furling, and securing all the sails of ships or vessels." *Letters Patent sealed.*

CANDELOT. 6th February 1858.

220. LOUIS FULGENCE CANDELOT, Builder, of 16, Rue St. Quentin, Paris, and of St. Just-en-Chaussée, Department of the Oise, both in the Empire of France, for an invention for—"Divers anti-nitrous cements, also applicable to rendering damp surfaces impervious, and to flagging and similar purposes." *Letters Patent sealed.*

WARAKSINE. 6th February 1858.

221. THEODORE WARAKSINE, of Russia, now residing at 135, Piccadilly, in the County of Middlesex, for an invention for—"Sorting corn by its weight by means of a special machine called specific corn-sorting machine." *Provisional protection only.*

POTTS. 6th February 1858.

222. WILLIAM POTTS, of Handsworth, in the County of Stafford, Manufacturer, for an invention for—"Improvements in painting upon glass and in protecting paintings upon glass." *Letters Patent sealed.*

DAVIES. 6th February 1858.

223. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in the preservation of meat and other animal and also vegetable substances."—*A communication from C. M. G. Magneval, Chemist, of Lyons, France.* *Letters Patent sealed.*

WHITE. PARLBY. 6th February 1858.

224. WILLIAM WHITE, and JOSIAH PARLBY, of Great Marylebone Street, in the County of Middlesex, Architectural Decorators, for an invention for—"Improvements in the preparation or treatment of carton-pierre, papier-mâché, and such like plastic substances, and in the application of such matters to walls, ceilings, and other internal parts of buildings, berths, and other parts of ships and other vessels, carriages, and other structures." *Letters Patent sealed.*

BALL. 6th February 1858.

225. WILLIAM BALL, of Rothwell, near Kettering, in the County of Northampton, Iron and Brass Founder, for an invention for—"Improvements in the construction of ploughs." *Letters Patent sealed.*

MILLER. 6th February 1858.

226. JOHN MILLER, of Upper George Street, Edgware Road, in the County of Middlesex, Confectioner and Baker, for an invention for—"Improvements in machinery for the manufacture of bread."—*A communication.* *Letters Patent sealed.*

WILSON. 8th February 1858.

227. ROBERT WILSON, of Liverpool, in the County of Lancaster, Ship Owner, for an invention for—"Improvements in propelling navigable vessels." *Provisional protection only.*

MATHIEU. 8th February 1858.

228. FRANÇOIS MATHIEU, of Lawrence Lane, in the City of London, for an invention for—"Improvements in stereoscopes." *Letters Patent sealed.*

TRIPE. 8th February 1858.

229. JULIUS DECIMUS TRIPE, of the Commercial Road East, in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparatus for securing window sashes or casements."—*Partly a communication.* *Letters Patent sealed.*

MEROUX. 8th February 1858.

230. PIERRE SIMON MEROUX, of St. Denis (France), Mechanic, for an invention for—"Improvements in fire-bars and grates for furnaces or other fire-places." *Letters Patent sealed.*

CUNNINGHAM. 8th February 1858.

231. ROBERT CUNNINGHAM, of Paisley, in the County of Renfrew, North Britain, Card Perforator, for an invention for—"Improvements in or connected with the production of letter-press printing surfaces, and surfaces used in reproducing ornamental patterns or devices by printing or otherwise." *Provisional protection only.*

DENCH. 8th February 1858.

232. EDWARD DENCH, of Chelsea, in the County of Middlesex, Hot-house Builder, for an invention for—"An improved boiler for heating water for heating and warming." *Letters Patent sealed.*

JOHNSON. STABLEFORD. 8th February 1858.

233. RICHARD WILLIAM JOHNSON, of Oldbury, in the County of Worcester, Railway Carriage Builder, and WILLIAM STABLEFORD, of the same place, Engineer, for an invention for—"Improvements connected with the break levers of railway wagons." *Letters Patent sealed.*

NEWTON. 8th February 1858.

234. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery or apparatus for breaking stones, minerals, and other analogous substances."—*A communication from Léon Busquet, of Paris, Civil Engineer.* *Letters Patent sealed.*

BALL. 8th February 1858.

235. HENRY BALL, of Birmingham, in the County of Warwick, Gun Manufacturer, for an invention for—"Improvements in repeating and other fire-arms, a portion of which improvements may be applied to ordnance." *Letters Patent sealed.*

READER. DEWICK. 8th February 1858.

236. EDWARD READER, and JOHN DEWICK, both of Finkhill Street, in the Town and County of the Town of Nottingham, Machinists, for an invention for—"Improvements in lace machinery for the manufacture of velvet, lace, and looped fabrics, and in the fabrics manufactured by such machinery." *Letters Patent sealed.*

ASKEW. RITCHIE. 9th February 1858.

237. CHARLES ASKEW, 27½, Charles Street, Hampstead Road, in the County of Middlesex, Coppersmith, and DAVID RITCHIE, of 42, William Street, Regent's Park, in the County of Middlesex, Engineer, for an invention for—"Improvements in roasting machine for meat, poultry, or game of any kind, to be worked by spring jack movements or by the ordinary smoke jack." *Letters Patent sealed.*

WELLS. 9th February 1858.

238. JOHN WELLS, of Percival Street, Clerkenwell, in the County of Middlesex, Watch Case Maker, for an invention for—"Improvements in watch cases." *Letters Patent sealed.*

BROWN. MAY. 9th February 1858.

239. WILLIAM BROWN, and CHARLES NEALE MAY, both of Devizes, in the County of Wilts, Engineers, for an invention for—"Improvements in sluice valves." *Letters Patent sealed.*

MILLARD. 9th February 1858.

240. RICHARD MILLARD, of Duncannon Street, Trafalgar Square, in the County of Middlesex, Military Outfitter, for an invention for—"A portable chair." *Letters Patent sealed.*

PRINGLE. 9th February 1858.

241. GEORGE PRINGLE, of Preston Pans, in the County of Haddington, North Britain, Blacksmith, for an invention for—"Improvements in machinery or apparatus for propelling ships or vessels." *Provisional protection only.*

LEIGH. 9th February 1858.

242. EVAN LEIGH, of Manchester, in the County of Lancaster, Mechanical Engineer, for an invention for—"Certain improvements in carding-engines for carding cotton and other fibrous materials." *Letters Patent sealed.*

TAYLOR.
9th February 1858.

243. JOHN TAYLOR, of Swanton Novers, Thetford, in the County of Norfolk, Farm Bailiff, for an invention for—"An improvement in the construction of horse hoes, applicable also to drills." *Provisional protection only.*

WELLS.
9th February 1858.

244. BENJAMIN BLAKE WELLS, of 431, Strand, in the City of Westminster, and 143, Leadenhall Street, in the City of London, Cutler and Dressing Case Manufacturer, for an invention for—"Improvements in apparatus for counting and indicating numbers." *Letters Patent sealed.*

CARTE.
9th February 1858.

245. RICHARD CARTE, of No. 20, Charing Cross, in the City of Westminster, Military Musical Instrument Maker, for an invention for—"Improvements in clarionets." *Letters Patent sealed.*

STEVENS.
9th February 1858.

246. EBENEZER STEVENS, of Cambridge Road, in the County of Middlesex, for an invention for—"Improvements in machinery for preparing dough, paste, and like articles." *Letters Patent sealed.*

RICHARDSON.
RICHARDSON.
10th February 1858.

247. GEORGE RICHARDSON, of No. 2, Copenhagen Street, Islington, and WILLIAM RICHARDSON, of No. 5, Ranelagh Grove, Pimlico, both in the County of Middlesex, for an invention for—"The construction of three-wheeled carriages and omnibuses so constructed, to be called 'First Class Omnibuses.'" *Letters Patent sealed.*

CLARK.
10th February 1858.

248. WILLIAM STETTINIUS CLARK, of the Atlas Works, Dorset Square, in the County of Middlesex, for an invention for—"Improvements in copying-presses."—*A communication from William M. Smith, and Peter Hannay, of Washington City, United States of America.* *Complete specification; Letters Patent sealed.*

PING.
10th February 1858.

249. GEORGE JOHN PING, of Chard, in the County of Somerset, Mechanic, for an invention for—"Improvements in machinery for the manufacture of bobbin net and netted fabrics." *Provisional protection only.*

AYTOUN.
10th February 1858.

250. ROBERT AYTOUN, of Edinburgh, in the County of Midlothian, North Britain, Writer to the Signet, for an invention for—"Improvements in safety cages or apparatus for mines." *Letters Patent sealed.*

PALMER.
10th February 1858.

251. WILLIAM PALMER, of Sutton Street, Clerkenwell, in the County of Middlesex, for an invention for—"Improvements in lamps." *Provisional protection only.*

CHATTERTON.
10th February 1858.

252. JOHN CHATTERTON, of Devonshire Street, Islington, in the County of Middlesex, for an invention for—"An improvement in electric telegraph wires, and in insulating telegraphic wires." *Letters Patent sealed.*

NASMYTH.
10th February 1858.

253. JAMES NASMYTH, of Lille, in the Empire of France, Civil Engineer, for an invention for—"Improvements in the mode of obtaining motive-power and of applying it." *Provisional protection only.*

CHAMBERS.
CHAMPION.
11th February 1858.

254. AUSTIN CHAMBERS, of Canterbury, in the County of Kent, WILLIAM HARRISON CHAMPION, of Lynsted, in the County of Kent, for an invention for—"Improvements in railway breaks." *Letters Patent sealed.*

CASS.
11th February 1858.

255. LOUIS CASS, of Bury, in the County of Lancaster, Engineer, for an invention for—"Improvements in steam-engines and steam-engine boilers, and in apparatus connected therewith."—*A communication.* *Letters Patent sealed.*

BELL.
11th February 1858.

256. RICHARD BELL, of Gracechurch Street, in the City of London, Architect, for an invention for—"An improvements in stable pans, sinks, and urinals." *Letters Patent sealed.*

BARRETT.
EXALL.
ANDREWES.
11th February 1858.

257. GEORGE ALLAM BARRETT, WILLIAM EXALL, and CHARLES JAMES ANDREWES, all of Reading, in the County of Berks, Engineers and Machinists, for an invention for—"An improvement in the manufacture of perforated beaters for thrashing-machines." *Letters Patent sealed.*

LOOKER.
11th February 1858.

258. BENJAMIN LOOKER, junior, of Kingston-on-Thames, for an invention for—"Improvements in sockets for receiving telegraphic and other posts or uprights." *Letters Patent sealed.*

JOHNSON.
JOHNSON.
11th February 1858.

259. CHARLES JOHNSON, of Dickleborough, in the County of Norfolk, and GEORGE JOHNSON, of Wandsworth, in the County of Surrey, for an invention for—"Improved machinery or apparatus for performing different operations required in agriculture." *Letters Patent sealed.*

BURTON.
11th February 1858.

260. GEORGE W. BURTON, of Dubrique, in the State of Iowa, United States of America, for an invention for—"An improved method of manufacturing white lead."—*A communication.* *Letters Patent sealed.*

ATKINSON.
11th February 1858.

261. JOSEPH ROBERT WILKIN ATKINSON, of Leeds, in the County of York, Flax Spinner, for an invention for—"An improved mode of tightening up and unscrewing binding nuts and screws." *Provisional protection only.*

KEATINGE.
11th February 1858.

262. WILLIAM KEATINGE, of Merrion Square, Dublin, Gentleman, for an invention for—"Improvements in correcting variations in the mariners' compass from local attraction." *Provisional protection only.*

THORRINGTON.
11th February 1858.

263. GEORGE THORRINGTON, of Old Windsor, in the County of Berks, Lighterman, for an invention for—"A novel method of propulsion applicable to agricultural purposes." *Provisional protection only.*

WILSON.
12th February 1858.

264. WILLIAM NEWTON WILSON, of 144, High Holborn, in the County of Middlesex, for an invention for—"Improvements in machines for cleaning and polishing knives."—*A communication.* *Provisional protection only.*

WILSON.
12th February 1858.

265. WILLIAM NEWTON WILSON, of No. 144, High Holborn, in the County of Middlesex, for an invention for—"Improvements in washing and wringing machines."—*A communication.* *Provisional protection only.*

FISHER.
BOOTH.
12th February 1858.

266. JAMES CHARLES FISHER, and JAMES BOOTH, of Blackburn, in the County of Lancaster, for an invention for—"An improved mode or method of driving mule spindles." *Provisional protection only.*

HORSEY.
12th February 1858.

267. JAMES HORSEY, of Greek Street, in the County of Middlesex, India-rubber Manufacturer, for an invention for—"An improvement in India-rubber and other elastic band or ring fastenings." *Provisional protection only.*

CLIFTON.
12th February 1858.

268. JAMES CLIFTON, of New Oxford Street, in the County of Middlesex, Manufacturer of Perambulators, for an invention for—"A new article of nursery furniture or gymnastic exercising chair and support for children."—*A communication.* *Letters Patent sealed.*

NEVILLE.
DORSETT.
12th February 1858.

269. THOMAS NEVILLE, of the City and County of the City of Lichfield, Surveyor and Civil Engineer, and WILLIAM SMITH DORSETT, of Aldridge, near Walsall, in the County of Stafford, Gentleman, for an invention for—"Improvements in steam-boilers or steam generators and in steam-engines." *Letters Patent sealed.*

NEVILLE.
DORSETT.
12th February 1858.

270. THOMAS NEVILLE, of the City and County of the City of Lichfield, Surveyor and Civil Engineer, and WILLIAM SMITH DORSETT, of Aldridge, near Walsall, in the County of Stafford, Gentleman, for an invention for—"A new or improved method of constructing and actuating horizontal water-wheels." *Provisional protection only.*

NEWTON.
12th February 1858.

271. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of sewing-machine."—*A communication.* *Letters Patent sealed.*

NEWTON.
12th February 1858.

272. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for stitching or working button holes."—*A communication.* *Letters Patent sealed.*

SCHAEFFER.
12th February 1858.

273. WILLIAM CHARLES THEODORE SCHAEFFER, of Stanningley, near Leeds, for an invention for—"Improvements in obtaining fatty and oily matters from wash-waters or waters containing soap." *Provisional protection only.*

MACINTOSH.
12th February 1858.

274. JOHN MACINTOSH, of North Bank, Regent's Park, for an invention for—"An improvement in treating articles of gutta-percha made or formed in dies or moulds, also certain articles of gutta-percha made by expressing through dies, and also articles of gutta-percha made by pressing-rollers." *Letters Patent sealed.*

DUNCAN.
13th February 1858.

275. JOHN DUNCAN, of Greenock, in the County of Renfrew, North Britain, Manager, for an invention for—"Improvements in the manufacture of ornamental chenille fabrics." *Provisional protection only.*

RYFFEL.
13th February 1858.

276. JOHN EMIL RYFFEL, of Wimbledon, in the County of Surrey, for an invention for—"The improvement of stoves for the purpose of warming rooms and baking bread, called the Hygeian stove." *Letters Patent sealed.*

SIEVIER.
13th February 1858.

277. JOHN CORNISH HARCOURT SIEVIER, of Upper Holloway, in the County of Middlesex, for an invention for—"Improvements in submarine conductors of electric telegraphs." *Letters Patent sealed.*

JOHNSON.
13th February 1858.

278. EDWARD DANIEL JOHNSON, of Wilmington Square, in the County of Middlesex, Watch and Chronometer Maker, for an invention for—"An improved construction of chronometer case." *Letters Patent sealed.*

SPENCE.
15th February 1858.

279. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in telegraphic apparatus."—*A communication from Messrs. Digney, Brothers, of 8, Rue des Poitevins, Paris, Manufacturers of telegraphic apparatus.* *Letters Patent sealed.*

M'DERMID.
M'DERMID.
15th February 1858.

280. JOHN M'DERMID, and JOSEPH M'DERMID, both of Oak Tree, Middleton-one-Row, near Darlington, in the County of Durham, for an invention for—"An improved apparatus or contrivance for supplying water to buildings and dwelling-houses for sanitary purposes and for the extinction of fire." *Provisional protection only.*

BENOÎT.
15th February 1858.

281. PHILIPPE MARTIN NARCISSE BENOÎT, of Paris, in the Empire of France, Engineer, for an invention for—"An improvement in counterbalancing the pressure exerted by the steam against the slide valves of steam-engines of all kinds." *Provisional protection only.*

HUNT.
15th February 1858.

282. EDMUND HUNT, of 31, Walnut Tree Walk, Lambeth, in the County of Surrey, Chemist, for an invention for—"Improvements in voltaic batteries and in means for producing the electric light." *Provisional protection only.*

BOUSFIELD.
15th February 1858.

283. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in the preparation of dough for bread, pastry, cake, and other farinaceous articles of food."—*A communication from James Perry and Elisha Fitzgerald, of New York.* *Provisional protection only.*

MOLINARI.
15th February 1858.

284. PIERRE MOLINARI, of Marseilles, in the Empire of France, for an invention for—"An improved composition to be used externally for preventing sea sickness and illness arising from similar causes." *Letters Patent sealed.*

TALL.
15th February 1858.

285. JOSEPH TALL, of 150, Blackfriars' Road, in the county of Surrey, for an invention for—"Improvements in that description of carriages called perambulators." *Letters Patent sealed.*

CRAWFORD.
15th February 1858.

286. MATTHEW CRAWFORD, of Elswick Iron Works, Newcastle-on-Tyne, for an invention for—"An improvement in the manufacture of furnace bars." *Provisional protection only.*

BLYTH.
15th February 1858.

287. GEORGE LINDSEY BLYTH, of Derby Street, Parliament Street, in the City of Westminster, Analytical Consulting Chemist, for an invention for—"An improvement in the manufacture of manure from sewage waters and other fluids containing ammonia or nitrogenous matters." *Letters Patent sealed.*

COPE.
15th February 1858.

288. WILLIAM COPE, of Nottingham, Manufacturer, for an invention for—"Improvements in the manufacture of fabrics by bobbin net or twist lace machinery." *Letters Patent sealed.*

SANDERS.
THACKER.
15th February 1858.

289. HENRY JOHN SANDERS, and SAMUEL THACKER, both of the Town and County ot the Town of Nottingham, for an invention for—"Improvements in machinery for the manufacture of textile and looped fabrics." *Letters Patent sealed.*

NEWTON.
15th February 1858.

290. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in treating certain oils and fats so as to effect the separation of constituent parts of such oils and fats."—*A communication.* *Letters Patent sealed.*

GARNETT.
15th February 1858.

291. JEREMIAH GARNETT, of Otley, in the County of York, Paper Manufacturer, for an invention for—"An improved manufacturer of paper." *Letters Patent sealed.*

ANDERSON.
PRESCOTT.
16th February 1858.

292. ROBERT ANDERSON, and JOHN JAMES PRESCOTT, of Duke Street, Liverpool, Brass Founders, &c., for an invention for—"Improvements in lubricators." *Provisional protection only.*

WILDE.
16th February 1858.

293. HENRY WILDE, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in connecting the ends of lightning conductors, and also the ends of submarine electric telegraph cables." *Letters Patent sealed.*

ARMITAGE.
16th February 1858.

294. WILLIAM ARMITAGE, of the City of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in looms."
Letters Patent sealed.

DAFT.
16th February 1858.

295. THOMAS BARNABAS DAFT, of Liverpool, Civil Engineer, for an invention for—"Improvements in instruments for rubbing out pencil marks and for sharpening pencils." *Letters Patent sealed.*

MENNONS.
16th February 1858.

296. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, E.C., for an invention for—"Certain improvements in voltaic batteries."—*A communication.* *Provisional protection only.*

NEWTON.
16th February 1858.

297. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for laying submarine telegraph cables."—*A communication.*
Provisional protection only.

COUTTS.
16th February 1858.

298. JOHN COUTTS, of Willington Lodge, Willington, Newcastle-on-Tyne, in the County of Northumberland, Naval Architect, for an invention for—"An improved paint, pigment, or composition, more particularly adapted for coating the hulls of ships, either iron or wooden, so as to prevent damp, corrosion, or fouling, and apparatus for drying and warming surfaces and preparing and applying to the same such paint, pigment, or composition." *Provisional protection only.*

MONSON.
17th February 1858.

299. CHARLES MONSON, of the State of Connecticut, of the United States of America, for an invention for—"A new and useful mechanism or apparatus to be used for supporting one or more gas-burners and conducting gas to such, or for various other useful purposes." *Complete specification; Letters Patent sealed.*

BOYD.
17th February 1858.

300. JAMES EDWARD BOYD, of Hither Green, Lewisham, in the County of Kent, Gentleman, for an invention for—"Improvements in lawn and grass mowing-machines." *Letters Patent sealed.*

BAKER.
BAKER.
17th February 1858.

301. GEORGE BAKER, of Birmingham, in the County of Warwick, Manufacturer, and JOHN EDWARD BAKER, of Birmingham, aforesaid, Manufacturer, for an invention for—"New or improved machinery for compressing and moulding powders and pastes." *Letters Patent sealed.*

HEYNS.
17th February 1858.

302. PATRICK HEYNS, of 2, Wade's Place, Poplar, in the County of Middlesex, Cooper, for an invention for—"Improvements in wheels and axle boxes."
Letters Patent sealed.

VARVILL.
17th February 1858.

303. ROBERT VARVILL, of Manchester, in the County of Lancaster, Ironmonger, for an invention for—"A certain improved apparatus for washing clothes or articles of wearing-apparel." *Provisional protection only.*

RIDDLE.
17th February 1858.

304. WILLIAM RIDDLE, of 4, Stonefield Terrace, Liverpool Road, in the County of Middlesex, for an invention for—"Improvements in apparatus for binding and fastening bales and other articles." *Letters Patent sealed.*

YELVERTON.
BOWEN.
17th February 1858.

305. The Honourable WILLIAM HENRY YELVERTON, of Whitland Abbey, Caernarvonshire, and OWEN BOWEN, of Great Queen Street, Westminster, Gentleman, for an invention for—"An improved manufacture of coke."
Provisional protection only.

PIDDINGTON.
18th February 1858.

306. JOHN PIDDINGTON, Patent Agent, of No. 77, Montagne de la Cour, Brussels, in the Kingdom of Belgium, for an invention for—"Improvements in the manufacture of fuel commonly called artificial or patent fuel." *Letters Patent sealed.*

CUVELIER.
18th February 1858.

307. EUGÈNE CUVELIER, of Arras, in the Empire of France, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

CRISPIN.
18th February 1858.

308. WILLIAM HENRY CRISPIN, of Marsh Gate Lane, Stratford, in the County of Essex, Copper Smelter, for an invention for—"Improvements in the construction of bearings, beds, and sockets for axles, shafts, pivots, and other rotating parts of machinery." *Provisional protection only.*

NEWTON.
18th February 1858.

309. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved optical instrument which the inventor denominates a tropescope."—*A communication from Giovanni Caselli, of Florence.* *Letters Patent sealed.*

CLARIDGE. ROPER. 18th February 1858.

310. GEORGE CLARIDGE, of Pontypool Iron Works, in the County of Monmouth, Furnace Manager, and RICHARD S. ROPER, F.G.S., F.C.S., of Ebbw Vale Iron Works, in the same County, Agent, for an invention for—"An improved mode of manufacturing coke." *Letters Patent sealed.*

JOHNSON. 18th February 1858.

311. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for making bolts and rivets."—*A communication from Jean Baptiste Fondu, and Emile Boin.* *Provisional protection only.*

CHADWICK. 18th February 1858.

312. JOHN CHADWICK, of Glasgow, in the County of Lanark, North Britain, Engraver, for an invention for—"Improvements in machinery or apparatus for engraving or producing printing surfaces." *Provisional protection only.*

BLAIR. 18th February 1858.

313. HARRISON BLAIR, of Kearsley, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Certain improvements in the method of recovering sulphur which has been used in the manufacture of soda ash, and in the apparatus connected therewith." *Letters Patent sealed.*

JONES. 18th February 1858.

314. FREDERICK JONES, of Manchester, in the County of Lancaster, Brush Maker, for an invention for—"Certain improvements in machinery or apparatus for cutting 'Piassava' or other fibrous substances employed in the manufacture of brushes, which said improvements are also applicable to other purposes of cutting." *Letters Patent sealed.*

BEATTIE. 19th February 1858.

315. JOSEPH BEATTIE, of Lawn Place, South Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in locomotive and other steam-engines, parts of which improvements are respectively applicable to other purposes." *Letters Patent sealed.*

RILEY. 19th February 1858.

316. WILLIAM RILEY, of Liverpool, in the County of Lancaster, Engineer, for an invention for—"An improved method of raising and lifting water from the bilge or holds of ships and other vessels, and in a peculiar construction and arrangement for effecting the same." *Letters Patent sealed.*

SYERS. 19th February 1858.

317. JOHN MILNE SYERS, of Liverpool, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the decomposition of salt, and in the abstracting of metals from their ores." *Provisional protection only.*

CHAMPION. 19th February 1858.

318. JAMES CHAMPION, of the City of Manchester, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in spinning cotton, silk, flax, wool, and other fibrous materials." *Provisional protection only.*

GRIFFITHS. 19th February 1858.

319. ROBERT GRIFFITHS, of 69, Mornington Road, Regent's Park, in the County of Middlesex, Engineer, for an invention for—"Improvements in screw propellers and apparatus for governing engines used to give motion to screw propellers." *Letters Patent sealed.*

MAW. 19th February 1858.

320. EDWIN MAW, of the Doncaster Iron Works, Yorkshire, for an inventing for—"Improvements in the manufactures of iron wheels." *Provisional protection only.*

BRAZENOR. BRAZENOR. 19th February 1858.

321. THOMAS BRAZENOR, the elder, and GEORGE BRAZENOR, the younger, Saddlers and Harness Makers, of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in mill bands." *Provisional protection only.*

BROWN. BROWN. 19th February 1858.

322. ISAAC BROWN, of the City of Carlisle, Merchant, and JOHN BROWN, of Nottinghill, in the county of Middlesex, Merchant, for an invention for—"Improvements in machinery or apparatus for reducing bones." *Provisional protection only.*

COOK. 19th February 1858.

323. JAMES EDGAR COOK, of Greenock, in the County of Renfrew, North Britain, Booking Clerk, for an invention for—"Improvements in binnacles or apparatus for holding marine compasses." *Letters Patent sealed.*

SKALLITZKY. 19th February 1858.

324. WILLIAM SKALLITZKY, Manufacturer, of Vienna, in Austria, for an invention for—"Improvements in the manufacture of socks and stockings." *Letters Patent sealed; specification filed by order.*

CLARK.
19th February 1858.

325. WILLAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in filtering water and in apparatus for the same."—*A communication.* *Letters Patent sealed.*

NETHERSOLE.
20th February 1858.

326. WILLIAM EDWARD NETHERSOLE, of Swansea, in the County of Glamorgan, South Wales, Carriage Superintendent, South Wales Railway, for an invention for —"Improvements in the construction of parts of railway carriages." *Letters Patent sealed.*

LITTLE.
20th February 1858.

327. ROBERT LITTLE, of Glasgow, in the County of Lanark, North Britain, Ironmonger, for an invention for—"Improvements in machinery or apparatus for washing and mangling." *Provisional protection only.*

METCALF.
20th February 1858.

328. THOMAS METCALF, of Newton Heath, Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the purification of crude tar oil, rendering the same suitable for lubricating machinery and other similar purposes." *Provisional protection only.*

THOMSON.
20th February 1858.

329. WILLIAM THOMSON, Doctor of Laws, Professor of Natural Philosophy in the University and College of Glasgow, in the County of Lanark, for an invention for—"Improvements in testing and working electric telegraphs." *Letters Patent sealed.*

EDWARDS.
20th February 1858.

330. HENRY EDWARDS, of Bishopsgate Street, in the City of London, for an invention for—"Improvements in stoppers for feeding bottles and other vessels." *Letters Patent sealed.*

GENTILE.
20th February 1858.

331. GIACCOMO GENTILE, of 41A, Queen Street, Cheapside, for an invention for —"Improvements in ornamenting lace, netted, knitted, and woven fabrics." *Provisional protection only.*

GREEN.
20th February 1858.

332. THOMAS GREEN, of Leeds, Mowing-machine Maker, for an invention for—"Improvements in mowing machinery." *Provisional protection only.*

BAUDOIN.
20th February 1858.

333. FELIX MARIE BAUDOIN, of Paris, in the Empire of France, Manufacturer, for an invention for—"Improvements in electric telegraph cables." *Letters Patent sealed.*

GREENE.
GREENE.
20th February 1858.

334. WILLIAM GREENE, of 21, Merlin's Place, Clerkenwell, in the County of Middlesex, House Decorator, and MATHEW CHARLES GREENE, of 19, Hatton Garden, in the same County, Wholesale Optician, for an invention for—"Improvements in joining soft metal pipes." *Provisional protection only.*

REY-RIMELS.
20th February 1858.

335. HENRY REY-RIMELS, of Brussels, in the Kingdom of Belgium, for an invention for—"A new process for manufacturing potato meal or fecula." *Letters Patent sealed.*

MYERS.
20th February 1858.

336. ABRAHAM MYERS, of No. 12, Hutchison Street, Gravel Lane, Houndsditch, in the City of London, Cap Manufacturer, for an invention for—"Improvements in the manufacture of caps or coverings for the head." *Provisional protection only.*

CLARK.
20th February 1858.

337. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"An improved rotary engine."—*A communication.* *Provisional protection only.*

SWORN.
WESTON.
20th February 1858.

338. JOSEPH SWORN, of 29, Churton Street, Pimlico, Builder, and THOMAS WESTON, of 40, Churton Street, Pimlico, Jeweller, both in the County of Middlesex, for an invention for—"An improved adhesive composition for whitening and clearing the surface of stones." *Provisional protection only.*

CATLIN.
20th February 1858.

339. GEORGE CATLIN, of Brussels, in the Kingdom of Belgium, Artist, for an invention for—"Improvements in the construction and propelling of steamers." *Provisional protection only.*

BETTS.
20th February 1858.

340. WILLIAM BETTS, of Wharf Road, City Road, in the County of Middlesex, Capsule Manufacturer, for an invention for—"A new manufacture of glazed or enamelled paper." *Letters Patent sealed.*

SCHAUB.
22nd February 1858.

341. GEORGE SCHAUB, of Birmingham, in the County of Warwick, Electro-Metallurgist, for an invention for—"A new or improved manufacture of certain kinds of printing type and other printing surfaces." *Letters Patent sealed.*

DAVIS. 22nd February 1858.

342. JOHN DAVIS, of No. 11, Burlington Cottages, Queen's Road, Dalston, in the County of Middlesex, Professor of Music, for an invention for—"Improvements in cornets and other wind musical instruments." *Letters Patent sealed.*

CORY. 22nd February 1858.

343. WILLIAM CORY, Junior, of Gordon Place, Gordon Square, in the County of Middlesex, for an invention for—"An improvement in the manufacture of artificial fuel." *Provisional protection only.*

HALL. 22nd February 1858.

344. WALTER HALL, of Erith, in the County of Kent, Manufacturer, for an invention for—"Improved apparatus for working railway breaks." *Letters Patent sealed.*

BROOMAN. 22nd February 1858.

345. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent. for an invention for—"An improvement in treating ores of precious metals."—*A communication.* *Provisional protection only.*

BROOMAN. 22nd February 1858.

346. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street. in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in machinery for effecting the amalgamation of precious metals." —*A communication.* *Provisional protection only.*

POTTS. 22nd February 1858.

347. JOHN POTTS, of 24, Park Street, Southwark, in the County of Surrey, Pattern Maker, for an invention for—"Improvements in machinery for cutting and shaping toothed gearing." *Letters Patent sealed.*

PULS. 23rd February 1858.

348. FRANCIS PULS, of Haverstock Hill, in the County of Middlesex, Chemist, for an invention for—"The manufacture of certain hydro-carbons." *Letters Patent sealed.*

TELFORD. HOPE. 23rd February 1858.

349. RICHARD TELFORD, of Birmingham, in the County of Warwick, Merchant, and MICHAEL HOPE, of the same place, Mechanic, for an invention for—"Improvements in castors for furniture." *Provisional protection only.*

JOHNSTON. 23rd February 1858.

350. WILLIAM JOHNSTON, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in apparatus for regulating or controlling the flow or passage of fluids." *Letters Patent sealed.*

M'LENNAN. 23rd February 1858.

351. WILLIAM M'LENNAN, of Glasgow, in the County of Lanark, North Britain, Brass Founder, for an invention for—"Improvements in the manufacture or production of boots, shoes, and other coverings for the feet." *Letters Patent sealed.*

BROOMAN. 23rd February 1858.

352. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in apparatus for separating substances of different specific gravities."—*A communication from P. Imbert.* *Provisional protection only.*

SHEPARD. 23rd February 1858.

353. EDWARD CLARENCE SHEPARD, of Jermyn Street, St. James's, in the County of Middlesex, Gentleman, for an invention for—"An improvement or improvements in depositing metals and metallic alloys by electricity." *Provisional protection only.*

TOYNBEE. 23rd February 1858.

354. EDWARD TOYNBEE, of London, Engineer, now at present residing in the City of Antwerp, in the Kingdom of Belgium, for an invention for—"Improvements in the manufacture of manure." *Letters Patent sealed.*

WHITE. 23rd February 1858.

355. GEORGE FREDERICK WHITE, of Mark Lane, in the City of London, Merchant, for an invention for—"Improvements in door and other locks." *Letters Patent sealed.*

BOYDELL. 23rd February 1858.

356. JAMES BOYDELL, of 65, Gloucester Crescent, Camden Town, for an invention for—"Improvements in locomotive carriages." *Provisional protection only.*

NEWTON. 23rd February 1858.

357. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved process for producing photographic pictures or designs on the surface of stone or metals, so that impressions may be taken therefrom by the process of lithographic printing."—*A communication from A. Cutting and Lodowick H. Bradford, of Boston, Massachusetts, in the United States of America.* *Letters Patent sealed.*

HOBBS. 24th February 1858.

358. ALFRED CHARLES HOBBS, of No. 76, Cheapside, London, for an invention for—"A domestic bell telegraph." *Provisional protection only.*

SMITH. 24th February 1858.

359. SYDNEY SMITH, of Hyson Green Works, near Nottingham, for an invention for—"Improvements in apparatus for insuring the correct action of the safety valves of steam-boilers." *Letters Patent sealed.*

BORLASE. 24th February 1858.

360. EDWARD BORLASE, of St. Just, near Penzance, in the County of Cornwall, Mining Engineer, for an invention for—"Improved apparatus for separating metals and metallic ores from other mineral substances." *Letters Patent sealed.*

HECTOR. 24th February 1858.

361. ALEXANDER HECTOR, of St. Cyrus, in the County of Kincardine, North Britain, Gentleman, for an invention for—"Improvements in apparatus for taking or catching fish." *Provisional protection only.*

HENDERSON. 24th February 1858.

362. JAMES HENDERSON, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in shells or explosive projectiles." *Letters Patent sealed.*

GIRARDET. 24th February 1858.

363. CHARLES GIRARDET, Manufacturer, of Vienna, in Austria, momentarily in Paris (France), for an invention for—"A new moveable shaft bearer or supporter of coaches." *Provisional protection only.*

KAYE. 24th February 1858.

364. CHARLES KAYE, of the firm of W. & C. Kaye, of Lockwood, in the County of York, Waggon Builders, for an invention for—"Improvements in couplings for connecting and disconnecting waggons and other carriages on railways." *Provisional protection only.*

PETRIE. 24th February 1858.

365. JAMES PETRIE, of Rochdale, in the County of Lancaster, Engineer, for an invention for—"Improvements in apparatus for regulating the flow of steam." *Letters Patent sealed.*

NEWTON. 24th February 1858.

366. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improved means of relieving the slide valves of steam-engines of unnecessary friction." —*A communication.* *Provisional protection only.*

NEWTON. 24th February 1858.

367. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"The application to carts or other vehicles of apparatus for weighing the load contained in such vehicles."—*A communication.* *Letters Patent sealed.*

NEWTON. 24th February 1858.

368. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"A mode of varying the length and reversing the direction of the throw of an eccentric, applicable to the reversing gear of locomotives, and expansion gear of other steam-engines, and to other purposes."—*A communication.* *Provisional protection only.*

BROWNING. 24th February 1858.

369. HENRY BROWNING, of Avon Cottage, Clifton Road, Bristol, for an invention for—"An improved composition for covering iron and other ships' bottoms and other surfaces." *Provisional protection only.*

FOSTER. 24th February 1858.

370. WALTER KITTREDGE FOSTER, of the State of Maine, of the United States of America, for an invention for—"An improvement in the manufacture of blades for pencil sharpeners or other articles of like nature." *Complete specification; Letters Patent sealed.*

MILLER. 24th February 1858.

371. ROBERT FREDERICK MILLER, of Hammersmith, near London, Coach Builder, for an invention for—"Improvements in omnibuses." *Letters Patent sealed.*

APPLEGATH. 24th February 1858.

372. AUGUSTUS APPLEGATH, of Dartford, in the County of Kent, for an invention for—"Improvements in printing-machinery." *Letters Patent sealed.*

TATHAM. 25th February 1858.

373. WILLIAM TATHAM, of Rochdale, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in machinery or apparatus for lubricating the pistons, piston rods, cylinders, and other parts of steam or other engines, and which is applicable to other purposes where lubricating matter is required." *Provisional protection only.*

ARNOLD. 25th February 1858.

374. JOHN ARNOLD, of Newton Moor, near Hyde, in the County of Chester, Engineer, for an invention for—"Improvements in metallic pistons." *Letters Patent sealed.*

BARNES. LOACH. 25th February 1858.	**375.** JOHN BOWEN BARNES, of Summer Lane, Birmingham, in the County of Warwick, Cruet Frame Manufacturer, and JOHN LOACH, Japanner, of Caroline Street, Birmingham, as aforesaid, for an invention for—"Certain improvements in apparatus for descending and ascending the shafts of mines or other deep pits, the descent and ascent of which imperils the lives of the miners or others employed therein." *Letters Patent sealed.*
TEMPLEMAN. 25th February 1858.	**376.** JAMES TEMPLEMAN, of Dunfermline, in the County of Fife, North Britain, Chemist, for an invention for—"Improvements in the manufacture or production of artificial fuel." *Letters Patent sealed.*
SLATER. SMITH. 25th February 1858.	**377.** WILLIAM SLATER, of Bolton-le-Moors, in the County of Lancaster, Manager, and SAMUEL SMITH, of the same place, Foreman, for an invention for—"Improvements in machinery to be used in turning and cutting metals." *Provisional protection only.*
MIDDLETON. 25th February 1858.	**378.** SAMUEL MIDDLETON, of No. 5, Little New Street, Fetter Lane, in the City of London, Cordwainer, for an invention for—"Improvements in the uniting or seaming articles of leather, and in the apparatus connected therewith." *Letters Patent sealed.*
PITMAN. 25th February 1858.	**379.** JOHN TALBOT PITMAN, of the American and European Patent Office, 67, Gracechurch Street, in the City of London, for an invention for—"Improvements in hand lever self-inking printing-presses for printing cards, envelopes, bill heads, and other articles."—*A communication from Samuel J. Smith, of New York, United States.* *Provisional protection only.*
NEWTON. 25th February 1858.	**380.** ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for grinding and polishing glass, stone, metal, and other substances."—*A communication.* *Letters Patent sealed.*
LAMBERT-ALEXANDRE. 25th February 1858.	**381.** LAZARE PROSPER LAMBERT-ALEXANDRE, of Paris, in the French Empire, for an invention for—"Improvements in apparatus and signals for preventing accidents on railways." *Provisional protection only.*
MORISON. MORISON. 26th February 1858.	**382.** JAMES MORISON, Senior, and JAMES MORISON, Junior, both of Paisley, in the County of Renfrew, North Britain, Machine Makers, for an invention for—"Improvements in jacquard apparatus used in weaving." *Letters Patent sealed.*
SMITH. 26th February 1858.	**383.** WILLIAM COMPTON SMITH, of No. 31, Lincoln's Inn Fields, in the County of Middlesex, Solicitor, for an invention for—"Improvements in the manufacture of envelopes for letters and other purposes." *Letters Patent sealed.*
CHADWICK. 26th February 1858.	**384.** WILLIAM CHADWICK, of Bury, in the County of Lancaster, Tin Plate Worker, for an invention for—"Improvements in ventilators."—*Letters Patent sealed.*
MACKWORTH. 26th February 1858.	**385.** HERBERT MACKWORTH, of Clifton, in the County of Gloucester, for an invention for—"Improvements in the separation, raising, and lowering of coal and other minerals, and in coking, and in apparatus connected therewith." *Provisional protection only.*
DESSALES. 27th February 1858.	**386.** ALEXIS JEAN DESSALES, of 13, Rue des Enfants Rouges, Paris, in the Empire of France, for an invention for—"Improvements in oil lamps for railway carriages, ships' cabins, and other purposes." *Complete specification; Letters Patent sealed.*
HOGA. 27th February 1858.	**387.** STANISLAS HOGA, of Nassau Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in applying power in locomotion by which a given force may, in its effect of overcoming resistance, be increased and multiplied." *Provisional protection only.*
KNOTT. 27th February 1858.	**388.** JAMES KNOTT, of 63, Oakley Street, Lambeth, in the County of Surrey, Glass Manufacturer, for an invention for—"An improved feeding-bottle." *Letters Patent sealed.*
RAYMOND. LAMBERT. 27th February 1858.	**389.** JOSEPH THEODORE RAYMOND, and ALPHONSE LAMBERT, both of Caledonian Road, in the County of Middlesex, for an invention for—"Ornamenting textile fabrics." *Provisional protection only.*

NURSE.
NURSE.
NURSE.
27th February 1858.

390. DAVID NURSE, ROBERT NURSE, and GEORGE NURSE, of Machan, in the County of Monmouth, South Wales, Tin Plate Manufacturers, for an invention for —" Improvements in coating metals." *Letters Patent sealed.*

GALLI.
27th February 1858.

391. LUIGI GALLI, of Milan, in Italy, now residing in Paris, France, for an invention for—" A process of superseding wood engraving which he calls gallitypy." *Letters Patent sealed.*

CAVE.
27th February 1858.

392. WILLIAM CAVE, of Rathbone Place, in the County of Middlesex, for an invention for—" Improvements in apparatus for propelling vessels, carriages, and machinery." *Provisional protection only.*

HENRY.
27th February 1858.

393. MICHAEL HENRY, of 77, Fleet Street, in the City of London, Patent Agent, for an invention for—" Improvements in electro-magnetic motors."—*A communication from Messrs. Grenet and Vavin.* *Letters Patent sealed.*

GILBEE.
27th February 1858.

394. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—" An improved union joint for gas, water, and steam pipes, also applicable to the branch pipes of fire-engines."—*A communication.* *Letters Patent sealed.*

GILBEE.
27th February 1858.

395. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—" Improvements in the branch pipes of fire-engines or pumps."—*A communication.* *Provisional Protection only.*

CLARK.
27th February 1858.

396. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—" Improvements in preparing paper for and in obtaining photographic proofs or impressions."—*A communication from M. Niepce de St. Victor, of Paris, France.* *Provisional protection only.*

NEWEY.
NEWEY.
1st March 1858.

397. JAMES GEORGE NEWEY, and WILLIAM MILLARS NEWEY, both of Birmingham, in the County of Warwick, Manufacturers, for an invention for—" Improvements in fastenings especially for or applicable to wearing-apparel and purposes where a spring connection or adjustment is desirable, in arranging for sale and packing fastenings and ornaments, and in ornaments for personal wear." *Letters Patent sealed.*

MILLS.
1st March 1858.

398. THOMAS MILLS, of Partick, in the County of Lanark, North Britain, Engineer and Miller, for an invention for—" Improvements in treating and dressing flour or reduced grain." *Provisional protection only.*

SCHUTTENBACH.
1st March 1858.

399. ANTON VON SCHUTTENBACH, of St. Petersburgh, for an invention for—" An improvement in treating fatty and oily matters." *Letters Patent sealed.*

HADFIELD.
1st March 1858.

400. JOHN HADFIELD, of Chelmsford, in the County of Essex, Manufacturing Chemist, for an invention for—" Improvements in the manufacture of manure and other products when treating sewage matters, and in the manufacture of colours." *Provisional protection only.*

FIELD.
1st March 1858.

401. JOHN KINGSFORD FIELD, of Upper Marsh, Lambeth, in the County of Surrey, for an invention for—" Improvements in lamps."—*A communication from Anton von Schuttenbach, of St. Petersburgh.* *Letters Patent sealed.*

GREENLEY.
DAFT.
1st March 1858.

402. DAVID GREENLEY, of Upper Cumming Street, Pentonville, Artesian Well Borer, and THOMAS BARNABAS DAFT, of Bedford Street North, Liverpool, Engineer, for an invention for—" Improvements in machinery for boring for water or for other purposes." *Provisional protection only.*

PLATT.
1st March 1858.

403. HENRY MORTIMER PLATT, of the City of New York, United States of America, Gentleman, for an invention for—" Improvements in ploughing and tilling land." *Letters Patent sealed.*

NEWTON.
1st March 1858.

404. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—" Improved machinery for removing burrs and other extraneous substances from wool or skins." —*A communication.* *Letters Patent sealed.*

NEWTON.
1st March 1858.

405. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—" Improvements in the treatment or preparation of maize or Indian corn previous to grinding the same into flour."—*A communication.* *Letters Patent sealed.*

BILLING. 1st March 1858.

406. JOHN BILLING, of Abingdon Street, Westminster, in the County of Middlesex, Architect, for an invention for—"An improved throat and door for chimneys and flues." *Letters patent sealed.*

SKELLY. 2nd March 1858.

407. JOHN SKELLY, of Killcurry, Ireland, Coach Builder, for an invention for—"Improvements in carriage springs." *Letters patent sealed.*

BIRCUMSHAW. 2nd March 1858.

408. JONATHAN BIRCUMSHAW, of Lenton, in the County of Nottingham, Lace Dresser, for an invention for—"Improvements in machinery for dressing lace made of silk, cotton, or other material." *Letters Patent sealed.*

BROOMAN. 2nd March 1858.

409. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"An apparatus for separating substances of different specific gravities, and for washing sands and earths."—*A communication from Alphonse Prestel.* *Provisional protection only.*

RIPLEY. 2nd March 1858.

410. ABRAHAM RIPLEY, of 10, Alfred Place, Newington Causeway, Southwark, County of Surrey, Engineer, for an invention for—"Improvements in machinery for rolling and pollishing leather and tanned or untanned hides." *Letters Patent sealed.*

JOHNSON. 2nd March 1858.

411. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in surcharging or regenerating steam, and in the application of the same to steam-engines."—*A communication from John J. G. Collins, William A. Rhodes, and Thomas Drake, all of the City of Philadelphia, in the United States of America.* *Provisional protection only.*

HOOPER. 2nd March 1858.

412. WILLIAM HOOPER, of Mitcham, in the County of Surrey, for an invention for—"Improvements in the manufacture of buffer and other springs when vulcanized India-rubber is used." *Letters Patent sealed.*

NEWTON. 2nd March 1858.

413. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in the process of manufacturing soda and potash."—*A communication from M. Le Chatelier, Mining Engineer, of Paris, in the Empire of France.* *Letters Patent sealed.*

DRIGGS. 2nd March 1858.

414. WILLIAM SPENCER DRIGGS, of New York, but now residing at Berner's Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in pianofortes."—*A communication from Spencer Bartholomew Driggs, of New York, in the United States of America.* *Provisional protection only.*

MONCKTON. 3rd March 1858.

415. EDWARD HENRY CRADOCK MONCKTON, of the Parthenon Club, Regent Street, in the County of Middlesex, for an invention for—"Improvements in distilling and rectifying, and in the apparatus to be employed therein." *Letters Patent sealed.*

SLEEBOOM. 3rd March 1858.

416. WILLEM HENDERK'S SLEEBOOM, of Hamburgh, Surveyor to the French "Lloyd's," for an invention for—"Improvements in the construction of the keel of ships or other vessels." *Letters Patent sealed.*

GAUTROT. 3rd March 1858.

417. PAUL JOSEPH GAUTROT, Civil Engineer, of Paris, residing No. 206, Regent Street, London, in the County of Middlesex, for an invention for—"Instantaneous tents invented purposely for the use of public vehicles called omnibuses, but which can be also applied to any other open vehicles, carts, or waggons, and travelling hawkers, at a very low cost: new system of shelter against the inclemency of the weather." *Provisional protection only.*

KIRKLEY. KIRKLEY. 3rd March 1858.

418. GEORGE KIRKLEY, and JOHN KIRKLEY, of Salford, near Manchester, in the County of Lancaster, Slaters and Slate Dealers, for an invention for—"Improvements in perforating slates or similar materials." *Letters Patent sealed.*

PARKER. 3rd March 1858.

419. BENJAMIN PARKER, of Hammersmith, in the County of Middlesex, Surveyor, for an invention for—"The manufacture of materials for coating, cementing, bedding, and otherwise protecting bodies, and which are also applicable to the construction or formation of various articles." *Provisional protection only.*

GOWING. BULL. 3rd March 1858.

420. JAMES GOWING, of Poplar, in the County of Middlesex, Engineer, and HENRY BULL, of Greenwich, in the County of Kent, Engineer, for an invention for "Improvements in apparatus for preventing smoke, applicable to tubular boilers." *Provisional protection only.*

SCOBLE. 3rd March 1858.

421. WILLIAM SCOBLE, Foreman of Gas Works, Bow Common Lane, Mile End, for an invention for—"Arranging the retorts, furnaces, flues, communications, and connections, for the more economical manufacture of gas, and by which arrangement the generative heat may be obtained from either coal, coke, tar, or other similar combustible substances." *Provisional protection only.*

PARSON. PILGRIM. 3rd March 1858.

422. GEORGE JOHN PARSON, of Adelphi Terrace, Strand, Gentleman, and THOMAS PILGRIM, Engineer, of Bow, both in the County of Middlesex, for an invention for—"Improvements in the mode of raising the temperature of steam generated in steam-boilers, and using the same for working steam-engines." *Complete specification; Letters Patent sealed.*

GRAVELEY. 3rd March 1858.

423. WILLIAM HENRY GRAVELEY, of Upper East Smithfield, in the County of Middlesex, Engineer, for an invention for—"An apparatus for purifying sea and other mineral waters, and rendering them fit to drink." *Letters Patent sealed.*

FOWLER. 3rd March 1858.

424. JOHN FOWLER, Junior, of Cornhill, in the City of London, for an invention for—"Improvements in apparatus employed in laying down electric telegraph cables." *Provisional protection only.*

BIDDELL. 3rd March 1858.

425. GEORGE ARTHUR BIDDELL, of Ipswich, for an invention for—"Improvements in machines for cutting vegetable and other substances."—*Letters Patent sealed.*

HART. GIBBONS. GIBBONS. 4th March 1858.

426. CHARLES HART, PHILLIP GIBBONS, and HENRY GIBBONS, of Wantage, in the County of Berkshire, Agricultural Engineers and Copartners, for an invention for—"Improvements in the construction and arrangement of combined thrashing and winnowing machines, and in the application of animal power thereto." *Provisional protection only.*

URE. 4th March 1858.

427. JAMES MILLAR URE, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improved apparatus for lifting the driving wheels of a locomotive off the rails, and which can be used when the locomotive is either running or stationary." *Provisional protection only.*

HIPKINS. 4th March 1858.

428. GEORGE FREDERICK HIPKINS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in constructing and attaching knobs and spindles, and in connecting knobs to doors, drawers, and other articles." *Provisional protection only.*

KNOWELDEN. 4th March 1858.

429. JOHN KNOWELDEN, of Southwark, in the County of Surrey, Engineer, for an invention for—"Improvements in obtaining motive-power." *Provisional protection only.*

WILKINSON. 4th March 1858.

430. WILLIAM WILKINSON, of Bayswater, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery and apparatuses for spinning threads, for preparing threads for weaving and knitting, for covering cores with fibrous and other materials, and for making ropes, parts of which are applicable as pulleys, reels, and bobbins." *Provisional protection only.*

DEWAR. 4th March 1858.

431. JOHN DEWAR, of Edinburgh, in the County of Midlothian, North Britain, Boot Maker, for an invention for—"Improvements in the manufacture of boots and other coverings for the feet." *Provisional protection only.*

STEWART. HOPE. 4th March 1858.

432. CHARLES PATRICK STEWART, of the firm of Sharp, Stewart, and Company, of the City of Manchester, Engineers, and DAVID GRAHAM HOPE, of the same place, Civil Engineer, for an invention for—"Improvements in locomotive and other engines." *Provisional protection only.*

BOULTON. 4th March 1858.

433. SAMUEL BOLTON, of No. 11, Luther Street, Everton, near Liverpool, in the County of Lancaster, Agent, for an invention for—"Obtaining by an improved method certain products from materials used in the manufacture or purification of gas." *Provisional protection only.*

MOORE. 4th March 1858.

434. PAUL MOORE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of hinges." *Letters Patent sealed.*

COWPER. 4th March 1858.

435. THOMAS COWPER, of Douglas, Isle of Man, for an invention for—"Improvements in the construction of ships or vessels, and the method of discharging bilge water therefrom." *Provisional protection only.*

EYLAND. 4th March 1858.

436. CHARLES EYLAND, of Walsall, in the County of Stafford, Manufacturer, for an invention for—"An improvement or improvements in certain descriptions of buckles." *Complete specification; Letters Patent sealed.*

THOMSON. 4th March 1858.

437. WILLIAM THOMSON, Doctor of Laws, Professor of Natural Philosophy in the University and College of Glasgow, in the County of Lanark, for an invention for—"Improvements in apparatus for applying and measuring resistance to the motion of rotating wheels, shafts, or other rotating bodies." *Letters Patent sealed.*

BOYCE. 5th March 1858.

438. CHARLES BOYCE, of Tipton, in the County of Stafford, Anchor Smith, for an invention for—"A new or improved anchor." *Letters Patent sealed.*

COLLINS. 5th March 1858.

439. HENRY GEORGE COLLINS, of Paternoster Row, in the City of London, for an invention for—"An improved method of obtaining impressions on an enlarged or diminished scale from engraved plates or other printing surfaces." *Letters Patent sealed.*

BARHAM. 5th March 1858.

440. ALFRED GARRATT BARHAM, of Bridgewater, in the County of Somerset, Merchant, for an invention for—"Improvements in the manufacture of gypsum." *Provisional protection only.*

VASSEROT. 5th March 1858.

441. CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"Improvements in the manufacture of wrought-iron wheels for locomotives, tenders, waggons, &c."—*A communication from Messrs. François Dory and Joseph Badin, of Lyons, in the Empire of France.* *Letters Patent sealed.*

COMMON. 5th March 1858.

442. NICHOLAS COMMON, of Rose Hill, Brighton, in the County of Sussex, Engineer, for an invention for—"An improved arrangement of water supply valve." *Provisional protection only.*

COLE. 5th March 1858.

443. JAMES FERGUSON COLE, of Devonshire Street, in the County of Middlesex, Watch and Chronometer Maker, for an invention for—"An improvement in watches and other time-keepers, and an improved escapement wheel or pallet to be employed therein." *Provisional protection only.*

HEARDER. 5th March 1858.

444. JONATHAN NASH HEARDER, of Plymouth, in the County of Devon, Philosophical Apparatus Maker, for an invention for—"Improvements in submarine telegraph cables." *Letters Patent sealed.*

PARSONS. 5th March 1858.

445. CHARLES FREDERICK PARSONS, of Duke Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for producing and revivifying animal charcoal." *Letters Patent sealed.*

JOHNSON. 5th March 1858.

446. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in railway signals."—*A communication from Jean Joseph Etienne Lenoir, of Paris, in the Empire of France.* *Letters Patent sealed.*

MOATE. 6th March 1858.

447. CHARLES ROBERT MOATE, of No. 65, Old Broad Street, in the City of London, Broker, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

DAVIES. 6th March 1858.

448. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"A substitute for red lead, either as a cement for joints or a coating for preserving metals."—*A communication from Messrs. Bouchard and Clavel, of Paris, Bankers.* *Letters Patent sealed.*

WHEATCROFT. 6th March 1858.

449. SAMUEL WHEATCROFT, of No. 14, Brudenell Place, Hoxton, Parish of Shoreditch, and County of Middlesex, for an invention for—"The manufacture of cap fronts and applicable to the manufacture of ruches and ribbon trimmings." *Letters Patent sealed.*

BARTLEET. 6th March 1858.

450. ROBERT SMITH BARTLEET, of Redditch, in the County of Worcester, Needle Manufacturer, for an invention for—"An improvement or improvements in papers, envelopes, or cases for holding needles." *Letters Patent sealed.*

NIBBS. HINKS. 6th March 1858.

451. JAMES SYSON NIBBS, of Birmingham, in the County of Warwick, Manufacturer, and JAMES HINKS, of Birmingham, aforesaid, Manufacturer, for an invention for—"Improvements in oil and spirit lamps." *Letters Patent sealed.*

DE ST. GERMAIN. 6th March 1858.

452. COMTE CAMILLE CAVALLI DE ST. GERMAIN, of Piedmont, Ex Officier d'Artillerie Sarde, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in the manufacture of starch." *Letters Patent sealed.*

WILKINSON. 6th March 1858.

453. WILLIAM WILKINSON, of Bayswater, in the County of Middlesex, Engineer, for an invention for—"Improvements in the means of facilitating communication across seas or other waters, parts of which are applicable to telegraphing on land." *Provisional protection only.*

BROOMAN. 6th March 1858.

454. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"An improvement in the construction of skirts and petticoats."—*A communication from Auguste Defraire.* *Provisional protection only.*

BURKE. 6th March 1858.

455. EDMUND BURKE, of 69, Upper Thames Street, in the City of London, Iron Tube Manufacturer, for an invention for—"An improvement in applying iron tubes to locomotive and other tubular steam-boilers."—*A communication.* *Letters Patent sealed.*

WHYTOCK. 6th March 1858.

456. ANDREW WHYTOCK, of 12, Little St. Andrew Street, Upper St. Martin's Lane, in the County of Middlesex, for an invention for—"Improvements in apparatus to be applied to wheels to facilitate them in travelling on common roads and other surfaces." *Provisional protection only.*

REED. 6th March 1858.

457. WILLIAM REED, of 58, Westgate Street, Newcastle-on-Tyne, for an invention for—"Improvements in the permanent way of railways."—*Provisional protection only.*

CLARE. 6th March 1858.

458. JOHN WILLIAM CLARE, of Surrey Square, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in apparatus for stopping or retarding railway engines, carriages, and trains, and communicating signals between parts of a train." *Letters Patent sealed.*

DEROUEN. 6th March 1858.

459. ANTOINE SAINTE-MARIE DEROUEN, of Paris (Empire of France), and of 45, Essex Street, Strand, London, for an invention for—"Improvements in machinery for combing fibrous substances." *Provisional protection only.*

CAP. 6th March 1858.

460. PAUL ANTOINE CAP, Knight of the Legion of Honour, of Paris (Empire of France), and of 45, Essex Street, Strand, London, for an invention for—"An improved construction of billiard-tables for drawing rooms." *Letters Patent sealed.*

JOHNSON. 6th March 1858.

461. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the production of aluminum and its alloys, and in the production of other metals the oxides of which are not reducible by charcoal."—*A communication from Louis Philippe Bernard Edouard Cumenge, of Paris, in the Empire of France, Mining Engineer.* *Letters Patent sealed.*

SANDERSON. 6th March 1858.

462. CHARLES SANDERSON, of Sheffield, in the County of York, Merchant, for an invention for—"Improvements in the manufacture of malleable iron and steel." *Provisional protection only.*

MOREL. 6th March 1858.

463. EUGÈNE MOREL, of the City of Ghent, in Belgium, Administrator Director of the Societé de la Lys Flax Spinning Company, in Ghent, for an invention for—"Improved machinery for drawing fibrous substances."—*A communication.* *Letters Patent sealed.*

MAISSIAT. 6th March 1858.

464. JACQUES HENRI MARIE MAISSIAT, of Paris, in the Empire of France, Chemist, for an invention for—"Improvements in dibbling machinery for depositing grain and manure." *Letters Patent sealed.*

REDFORD. 8th March 1858.

465. GEORGE REDFORD, of No. 6, Hulton Street, Moss-side, Manchester, in the County of Lancaster, for an invention for—"Making bullet cartridges of one continuous piece of metal." *Provisional protection only.*

STONEY. 8th March 1858.

466. BINDON BLOOD STONEY, of the City of Dublin, Ireland, Civil Engineer, for an invention for—"Improvements in buoys, floating beacons, and other similar floating bodies." *Letters Patent sealed.*

LYNE. 8th March 1858.

467. THOMAS LYNE, of Malmsbury, in the County of Wilts, Draper, for an invention for—"An improved harrow." *Letters Patent sealed.*

JOHNSON. 8th March 1858.

468. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—" Improvements in the decoration or ornamentation of leather cloth and similar fabrics, and the application of the same to various useful purposes."—*A communication from Auguste Pellet, of Paris, in the Empire of France, Merchant.* *Letters Patent sealed.*

YOUNG. 8th March 1858.

469. JOHN YOUNG, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—" An improvement or improvements in the manufacture of hinges." *Provisional protection only.*

DOULTON. 8th March 1858.

470. HENRY DOULTON, of Lambeth, in the County of Surrey, for an invention for—" Improvements in the manufacture of smoke and air flues." *Letters Patent sealed.*

BUDD. 8th March 1858.

471. JAMES PALMER BUDD, of Ystalyfera Iron Works, Swansea, for an invention for—" Improvements in the smelting or refining of tin, tin ores, and tin scruff." *Letters Patent sealed.*

CLARK. 8th March 1858.

472. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—" Improvements in gas meters."—*A communication.* *Letters Patent sealed.*

CASENTINI. 9th March 1858.

473. MARIANO CASENTINI, of Westminster Road, Lambeth, in the County of Surrey, Modeller, for an invention for—" Improvements in preparing and indurating plaster, in preparing surfaces to receive plaster, and in preparing or perfecting plaster surfaces." *Provisional protection only.*

POYNTER. 9th March 1858.

474. JOHN EDGAR POYNTER, of Glasgow, in the County of Lanark, North Britain, Manufacturing Chemist, for an invention for—" An improved illuminating oil." *Letters Patent sealed.*

SKENE. 9th March 1858.

475. ROBERT SKENE, of Garmouth Fochabers, in the County of Elgin, North Britain, Manufacturer, for an invention for—" Improvements in obtaining motive-power from water." *Provisional protection only.*

DEACON. 9th March 1858.

476. HENRY DEACON, of Widnes, in the County of Lancaster, Alkali Manufacturer, for an invention for—" Improvements in purifying alkaline lees." *Letters Patent sealed.*

HARRINGTON. 9th March 1858.

477. GEORGE FELLOWS HARRINGTON, of Ednam House, Ryde, Isle of Wight, for an invention for—" Improvements in the manufacture of artificial teeth, and in the beds and palates for teeth." *Letters Patent sealed.*

WARLICH. 9th March 1858.

478. FERDINAND CHARLES WARLICH, of Hope Cottage, Gloucester Place, Kentish Town, for an invention for—" Improvements in apparatus for generating steam." *Letters Patent sealed.*

JOHNSON. 9th March 1858.

479. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—" Improvements in the manufacture of stockings and other hosiery goods."—*A communication from Jules Nicolas Poivret, of Troyes, in the Empire of France, Mechanician.* *Provisional protection only.*

PEPPÉ. GOODMAN. 9th March 1858.

480. GEORGE FOSCO PEPPÉ, of 68, Brittania Terrace, City Road, in the County of Middlesex, Engineer, and LOUIS GOODMAN, of 285, Oxford Street, in the same County, Linen Draper, for an invention for—" Improvements in the construction and arrangement of time-keepers." *Provisional protection only.*

DAVIES. 10th March 1858.

481. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—" An improved eye or ring bolt."—*A communication from Mortimer M. Camp, of Newhaven, U. S. A.* *Letters Patent sealed.*

DAUPHIN. 10th March 1858.

482. HYPOLITE DAUPHIN, of Nantes, in the Empire of France, Jeweller, for an invention for—" A new or improved machine for giving to metallic bands a circular or partly circular form." *Letters Patent sealed.*

BEALE. 10th March 1858.

483. BENJAMIN BEALE, of East Greenwich, in the County of Kent, Engineer, for an invention for—" An improved method of cutting and shaping spokes." *Provisional protection only.*

HARDING. 10th March 1858.

484. WILLIAM HARDING, of 1, Park Villas, Forest Hill, in the County of Surrey, for an invention for—"Improvements in breech-loading fire-arms." *Letters Patent sealed.*

ANDREWS. 10th March 1858.

485. GEORGE STEVENS ANDREWS, of Charlewood Street, Pimlico, in the County of Middlesex, Machinist, for an invention for—"Improvements in washing-machines." *Letters Patent sealed.*

GEE. 10th March 1858.

486. JOHN FEARNE GEE, of Wrexham, in the County of Denbigh, Fire Ware Manufacturer, for an invention for—"Improvement in the joining of earthenware pipes for drains, sewers, and telegram wire conductors, also suitable for the conveyance of liquids, gas, and steam under pressure, when jointed." *Provisional protection only.*

DAVIES. 11th March 1858.

487. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glagow, Civil Engineer and Patent Agent, for an invention for—"Improvements in life boats."—*A communication from Mortimer M. Camp, of Newhaven, U. S. A.* *Letters Patent sealed.*

ROBERTS. 11th March 1858.

488. RICHARD ROBERTS, of the City of Manchester, Civil Engineer, for an invention for—"Improvements in mechanism for engraving and otherwise copying in line paintings and other designs on flat and curved surfaces of metal, paper, and other materials." *Letters Patent sealed.*

YOUNG. 11th March 1858.

489. JAMES YOUNG, of the City of Glasgow, Manufacturing Chemist, for an invention for—"Improvements in lamps." *Letters Patent sealed.*

HOLDSWORTH. 11th March 1858.

490. ARTHUR JONES HOLDSWORTH, of Leeds, in the County of York, Gentleman, for an invention for—"A safety railway oral communication." *Provisional protection only.*

HUMPHREYS. 11th March 1858.

491. JOHN DODDRIDGE HUMPHREYS, of Charlotte Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for moulding, compressing, and solidifying artificial fuel and other substances capable of being compressed." *Provisional protection only.*

BOUSFIELD. 11th March 1858.

492. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in knitting-machines."—*A communication.* *Letters Patent sealed.*

VERDEIL. 11th March 1858.

493. FRANÇOIS AUGUSTE VERDEIL, of Rue St. Sulpice, in the City of Paris, for an invention for—"Improvements in treating madder." *Letters Patent sealed.*

LEATHART. 11th March 1858.

494. JOHN DICKINSON LEATHART, of the Lead Works, Newcastle-on-Tyne, for an invention for—"Improvements in furnaces." *Provisional protection only.*

HAST. 11th March 1858.

495. FRIEDRICH ERNST DANIEL HAST, of Aldermanbury, in the City of London, Merchant, for an invention for—"An improved mode of manufacturing stearine."—*A communication.* *Letters Patent sealed.*

PORECKY. 12th March 1858.

496. ALEXANDER PORECKY, of No. 7, York Street, North, Hackney Road, in the County of Middlesex, for an invention for—"Improvements in the manufacture of the frames of umberellas and parasols." *Letters Patent sealed and specification filed, by order.*

WORRALL. RACE. 12th March 1858.

497. JAMES WORRALL, of Salford, in the County of Lancaster, Dyer, and CHARLES RACE, of Manchester, in the same County, Manager, for an invention for—"Improvements in machinery or apparatus for stretching and drying fabrics, part or parts of which said apparatus are also applicable to other machines wherein fabrics are required to be distended." *Letters Patent sealed.*

SMITH. 12th March 1858.

498. MARK SMITH, of Heywood, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

WARBURTON. 12th March 1858.

499. JAMES WARBURTON, of Low Mills, Addingham, near Otley, for the invention for—"Improvements in carding-engines."—*A communication.* *Letters Patent sealed.*

THOMPSON. 12th March 1858.

500. THOMAS THOMPSON, of Radbourne, in the County of Derby, Farmer, for an invention for—"Improvements in vats for cheese making." *Letters Patent sealed.*

CHELLINGWORTH. 12th March 1858.

501. THOMAS TERTIUS CHELLINGWORTH, of Birmingham, in the County of Warwick, Civil Engineer, for an invention for—"Improvements in suspending chandeliers and gas pendants." *Letters Patent sealed.*

PEARSON. 12th March 1858.

502. WILLIAM PEARSON, of Brierly Hill, in the County of Stafford, Cooper, for an invention for—"A new or improved washing-machine." *Letters Patent sealed.*

ASH. 12th March 1858.

503. ADOLPHUS ASH, of Woolwich, in the County of Kent, Cabinet Maker, for an invention for—"An improved pocket or other like safety clasp or protector." *Provisional protection only.*

WRIGHT. 12th March 1858.

504. JAMES WRIGHT, of 10, Alfred Place, Newington Causeway, Southwark, County of Surrey, Civil Engineer, for an invention for—"Improvements in the treatment of machine-made malleable iron nails."—*A communication.* *Provisional protection only.*

WRIGHT. 12th March 1858.

505. JAMES WRIGHT, of 10, Alfred Place, Newington Causeway, Southwark, County of Surrey, Civil Engineer, for an invention for—"Improvements in the mode of treating tanned and untanned hides and leather."—*A communication.* *Provisional protection only.*

NEWTON. 12th March 1858.

506. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"A new combination of instruments for extracting teeth."—*A communication.* *Letters Patent sealed.*

CORBELLI. 12th March 1858.

507. LUIGI FERRARI CORBELLI, of Florence, in the Grand Duchy of Tuscany, Commander of the Order of Malta, for an invention for—"An improved process for extracting aluminium from its compounds, and obtaining at the same time protochloride of mercury."—*Partly a communication from Vincent Riatti, of Modena.* *Letters Patent sealed.*

COUPIER. 12th March 1858.

508. JEAN THÉODORE COUPIER, of Paris, in the Empire of France, Chemist, for an invention for—"Treating vegetable fibrous matters to render them applicable for the manufacture of paper and pasteboard, and in apparatus connected therewith." *Letters Patent sealed.*

CARTER. 13th March 1858.

509. GEORGE CARTER, Gentleman, of Mottingham, in the County of Kent, for an invention for—"Improvements in steam-engines and machinery for propelling vessels and other bodies in water, and other purposes." *Provisional protection only.*

TILLIERE. 13th March 1858.

510. CHTISTOPHE TILLIERE, of Brussels, in Belgium, and 4, South Street, Finsbury, London, Gentleman, for an invention for—"Certain improvements in machinery for forging, planing, and stamping cold or heated metals." *Provisional protection only.*

PARMELEE. 13th March 1858.

511. SPENCER THOMAS PARMELEE, of Edinburgh, in the County of Midlothian, North Britain, for an invention for—"A new mode of combining certain materials to be used in the manufacture of boots and shoes." *Letters Patent sealed.*

PIGOTT. 13th March 1858.

512. GEORGE PIGOTT, of the Town and County of the Town of Nottingham, Lace Maker, for an invention for—"Improvements in jacquard machinery for figuring lace and other fabrics." *Letters Patent sealed.*

WALKER. 13th March 1858.

513. SAMUEL WALKER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of tubes of copper and alloys of copper." *Letters Patent sealed.*

JAMESON. 13th March 1858.

514. JOHN JAMESON, of 10, Catherine Terrace, Gateshead, in the County of Durham, for an invention for—"Improvements in apparatus for compressing and expanding aëriform fluids." *Letters Patent sealed.*

RIDDLE. 13th March 1858.

515. WILLIAM RIDDLE, of 4, Stonefield Terrace, Liverpool Road, in the County of Middlesex, for an invention for—"Improvements in the manufacture of wrought-iron nails." *Provisional protection only.*

NEWTON. 13th March 1858.

516. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for making horse-shoes."—*A communication.* *Letters Patent sealed.*

Osmond. Collins. 13th March 1858.	**517.** Stephen Thos. Osmond, of Ramsbury, in the County of Wilts, and Edwin Dandridge Collins, of Newbury, in the County of Berks, Machinists and Ironfounders, for an invention for—"Improvements in ploughs." *Letters Patent sealed.*
Martin. 15th March 1858.	**518.** John Cowdery Martin, of Fern Cottage, Charlewood Road, Putney, in the County of Surrey, Naval Architect, for an invention for—"An improved plastic compound for the manufacture of moulded articles to be used as a substitute for wood carvings and for many of the purposes to which papier-mâché is applicable." *Letters Patent sealed.*
Briet. 15th March 1858.	**519.** Julien Desiré Briet, of Paris, in the Empire of France, Merchant, for an invention for—"Improvements in pipes for smoking." *Provisional protection only.*
Edwards. 15th March 1858.	**520.** Richard Edwards, of 1, Single Street, Canal Road, Mile End Road, London, for an invention for—"Improvements in preparing and combining materials used in lighting or kindling fires." *Letters Patent sealed.*
Gough. 15th March 1858.	**521.** John Gough, of Chester, Agricultural Machine Maker, for an invention for—"Improvements in horse gear for driving machinery." *Provisional protection only.*
Brooman. 15th March 1858.	**522.** Richard Archibald Brooman, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in sewing-machines."—*A communication.* *Letters Patent sealed.*
Tellier. 15th March 1858.	**523.** Louis Joseph Tellier, of Pithiviers, in the French Empire, Tinker, for an invention for—"Improved machinery for raising water and other liquids." *Provisional protection only.*
Taylor. 15th March 1858.	**524.** William Garnett Taylor, of Ashby-de-la-Zouch, in the County of Leicester, Gentleman, for an invention for—"Improvements in preparing skins for tanning." *Provisional protection only.*
Ferry. 15th March 1858.	**525.** Amand Ferry, of the firm of Metzler and Company, Great Marlborough Street, London, for an invention for—"Improvements in cornets and other wind musical instruments."—*A communication.* *Provisional protection only.*
Aked. Crabtree. 15th March 1858.	**526.** Josiah Aked, of Halifax, in the County of York, Manufacturer, and John Crabtree, of the same place, Overlooker, for an invention for—"Improvements in the arrangement of machinery or apparatus for warping and beaming yarns for weaving," *Letters Patent sealed.*
Russell. 15th March 1858.	**527.** John Scott Russell, of Great George Street, Westminster, for an invention for—"Improvements in preserving the bottoms of iron ships and vessels." *Letters Patent sealed.*
Hamilton. 15th March 1858.	**528.** John Hamilton, Junior, of Liverpool, for an invention for—"Improvements in apparatus for propelling vessels." *Letters Patent sealed.*
Wallis. Haslam. 15th March 1858.	**529.** Arthur Wallis, and Charles Haslam, of Basingstoke, in the County of Hampshire, Agricultural Implement Manufacturers, for an invention for—"Improvements in engine, machine, and other like bearings." *Letters Patent sealed.*
Empson. 15th March 1858.	**530.** John Fielding Empson, the younger, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in ornamenting certain kinds of buttons." *Provisional protection only.*
D'Argy. 15th March 1858.	**531.** Edmond Armand Louis D'Argy, of Batignolles, near Paris, in the Empire of France, Manufacturer, for an invention for—"A new or improved rotary hydraulic blowing engine." *Letters Patent sealed.*
Gallafent. 16th March 1858.	**532.** Daniel Gallafent, of Stepney Causeway, in the County of Middlesex, Engineer, for an invention for—"Certain improvements in machinery or apparatus for cooling liquids and condensing vapours." *Letters Patent sealed.*
Hall. 16th March 1858.	**533.** George Hall, Ironmonger, of St. John's, in the City of Worcester, of the County of that name, for an invention for—"Certain improvements in cartridges and gun-wads." *Letters Patent sealed.*

HENRY. 16th March 1858.

534. MICHAEL HENRY, of 77, Fleet Street, in the City of London, Patent Agent, for an invention for—" Improvements in the manufacture or production of artificial marble frescoes and decorative ornamental and artistic surfaces, objects, and works." —*A communication from J. B. J. Lepers Brigy.* *Provisional protection only.*

ELEY. 16th March 1858.

535. WILLIAM THOMAS ELEY, of Broad Street, Golden Square, for an invention for—" Improvements in cartridges." *Provisional protection only.*

LAWSON. 16th March 1858.

536. JOHN LAWSON, of the Hope Foundry, Leeds, in the County of York, for an invention for—" Improvements in machinery used in spinning flax and other fibrous substances." *Provisional protection only.*

LE CAPELAIN. 16th March 1858.

537. PHILIP LE CAPELAIN, of Blackfriars' Road, in the County of Surrey, Gas Engineer, for an invention for—" Improvements in dry gas meters." *Letters Patent sealed.*

CLARK. 17th March 1858.

538. WILLIAM STETTINIUS CLARK, of the Atlas Works, Upper Park Place, Dorset Square,, in the County of Middlesex, for an invention for—" Improvements in machines for cutting and harvesting grain and grass crops."—*A communication from Walter A. Wood, of Hoosick Falls, New York.* *Letters Patent sealed.*

VASSEROT. 17th March 1858.

539. CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—" Improvements in the treatment of horn, and in the application of it when so treated as a substitute for whalebone in the manufacture of umbrellas, parasols, and similar objects."—*A communication from Messieurs Elie Vivet and Joseph Floret, of Lyons, in the Emvire of France.* *Provisional protection only.*

NICOLL. 17th March 1858.

540. DONALD NICOLL, of 114, Regent Street, in the County of Middlesex, for an invention for—" Improvements in machinery for cutting out military, naval, and police uniforms and other clothing." *Provisional protection only.*

TODD. TODD. 17th March 1858.

541. WILLIAM TODD, and JACOB TODD, of Heywood, in the County of Lancaster, Spinners and Manufacturers, for an invention for—" Certain improvements in power looms for weaving, and in shuttles to be employed therein." *Letters Patent sealed.*

CLARK. 17th March 1858.

542. WILLIAM STETTINIUS CLARK, of the Atlas Works, Upper Park Place, Dorset Square, in the County of Middlesex, for an invention for—" Improvements in metallic canisters for holding gunpowder and articles of a similar nature."—*A communication from Messrs. Green, Wilson, & Green, of Delaware, United States.* *Letters Patent sealed.*

GOODERHAM. 17th March 1858.

543. JOHN GOODERHAM, of John's Cottage, Matthias Street, Kingsland, in the County of Middlesex, Shoe Maker, for an invention for—" Improvements in shoemakers' wax." *Provisional protection only.*

BEATSON. 17th March 1858.

544. WILLIAM CLEMENT BEATSON, of Masbro', in the County of York, Glass Manufacturer, for an invention for—" Improvements in apparatus to be used in the manufacture of glass bottles." *Provisional protection only.*

HINE. 17th March 1858.

545. THOMAS CHAMBERS HINE, of Nottingham, Architect, for an invention for —" Improvements in lighting and ventilating by gas." *Letters Patent sealed.*

EVANS. 17th March 1858.

546. THOMAS EVANS, of Hanover Street, River Terrace, Islington, in the County of Middlesex, Umbrella and Parasol Manufacturer, for an invention for—" Improvements applicable to the manufacture of parasols." *Provisional protection only.*

BROOMAN. 17th March 1858.

547. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—" Improvements in the construction of boxes or cases for trees, flowers, and other horticultural and floricultural purposes." *A communication from Victor Ferdinand Jeauneau.* *Letters Patent sealed.*

WARD. 17th March 1858.

548. WILLIAM WARD, of Smethwick, in the County of Stafford, Accountant Clerk, for an invention for—" New or improved machinery for the manufacture of nails, spikes, bolts, rivets, screw blanks, and nuts." *Letters Patent sealed.*

OXLEY. 17th March 1858.

549. JOHN OXLEY, of Beverley, Yorkshire, and Moorgate Street, Carriage Builder, for an invention for—" An elastic cushion or fitting-piece for windows, blinds, shutters, and doors, which is also applicable for other purposes." *Provisional protection only.*

FLETCHER. 18th March 1858.

550. LAVINGTON EVANS FLETCHER, of Upper Norwood, in the County of Surrey, for an invention for—" Improvements in marine engines and boilers and their appurtenances." *Letters Patent sealed.*

GLANVILLE. 18th March 1858.

551. RICHARD GLANVILLE, of Bermondsey, in the County of Surrey, Engineer, for an invention for—" Improvements in condensing steam-engines." *Letters Patent sealed.*

DOLEY. BIGLAND. WORRALL. 18th March 1858.

552. CHARLES DOLEY, of Birmingham, in the County of Warwick, Manufacturer, and EDWIN BIGLAND, of Smethwick, in the County of Stafford, Designer and Glass Painter, and THOMAS HENRY WORRALL, of Smethwick, aforesaid, Lithographer, for an invention for—" Improvements in ornamenting metals." *Provisional protection only.*

WEBSTER. 18th March 1858.

553. JAMES WEBSTER, of Birmingham, in the County of Warwick, Engineer, for an invention for—" Certain new or improved metallic alloys." *Letters Patent sealed.*

ANDERSON. 18th March 1858.

554. SIR JAMES CALEB ANDERSON, of Fermoy, in the County of Cork, Ireland, Baronet, for an invention for—" Improvements in locomotive and other carriages." *Provisional protection only.*

DUNLOP. STARK. 18th March 1858.

555. ANDREW DUNLOP, of Moor Park Mill, in the County of Renfrew, North Britain, Grain Merchant, and ALEXANDER STARK, of the same place, Millwright, for an invention for—" Improvements in dressing or sifting flour and meal or reduced grain." *Letters Patent sealed.*

SUFFIELD. 18th March 1858.

556. THOMAS SUFFIELD, of Bermondsey, in the County of Surrey, Brass Founder and Plumber, for an invention for—" Improvements in pumps especially adapted for ships' purposes." *Letters Patent sealed.*

BROOMAN. 18th March 1858.

557. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C, Patent Agent, for an invention for—" An improved knee-cap."—*A communication from Louis Le Febvre.* *Provisional protection only.*

SUTTON. 18th March 1858.

558. THOMAS STEPHEN SUTTON, of Glynleiros, Neath, in the County of Glamorgan, for an invention for—" Improvements in miners' lamps." *Provisional protection only.*

TOWNEND. TOWNEND. 18th March 1858.

559. RICHARD TOWNEND, and WILLIAM TOWNEND, of Bradford, in the County of York, Musical Instrument Manufacturers, for an invention for—" Improvements in piston valve musical instruments." *Provisional protection only.*

NEWTON. 18th March 1858.

560. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—" An improved process of polishing, blueing, and annealing articles of iron and steel."—*A communication.* *Letters Patent sealed.*

CROLL. 18th March 1858.

561. ALEXANDER ANGUS CROLL, of Coleman Street, in the City of London, Engineer, for an invention for—" Improvements in the manufacture of parts of dry gas meters." *Letters Patent sealed.*

REDIER. 18th March 1858.

562. JOSETH ANTOINE JEAN REDIER, of Paris, in the Empire of France, Watch Maker, for an invention for—" An improved chronometer called ' Chronoscope.' " *Provisional protection only.*

AERTS. 19th March 1858.

563. PAUL FRANÇOIS AERTS, of Brussels, in the Kingdom of Belgium, Mechanical Engineer, for an invention for—" Improvements in the construction of railway rolling stock, and in the lubrication thereof and other moving parts of machinery." *Letters Patent sealed.*

BROCKLEBANK. 19th March 1858.

564. HENRY BROCKLEBANK, of Coventry, in the County of Warwick, Watch and Chronometer Maker, for an invention for—" Improvements in chronometers, watches, and time-keepers." *Letters Patent sealed.*

SCOTT. 19th March 1858.

565. GEORGE SCOTT, of Manchester, in the County of Lancaster, for an invention for—" Improvements in generating elastic fluids and in apparatus for that purpose." *Letters Patent sealed.*

MENNONS. 19th March 1858.

566. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, E.C., for an invention for—" Certain improvements in the production of motive-power."—*A communication.* *Provisional protection only.*

RHODES.
19th March 1858.

567. WILLIAM HENRY RHODES, of Oldham, in the County of Lancaster, Machinist, for an invention for—"Improvements in speed indicators and calculators." *Letters Patent sealed.*

WILLIAMS.
ROWLEY.
19th March 1858.

568. GEORGE WILLIAMS, of West Bromwich, in the County of Stafford, Forge and Mill Manager, and EDWARD ROWLEY, of West Bromwich, aforesaid, Iron Roller, for an invention for—"An improvement or improvements in piling iron." *Letters Patent sealed.*

MEDWIN.
19th March 1858.

569. THOMAS CHARLES MEDWIN, of No. 10, Clayton Place, Kennington Road, in the Parish of Lambeth, in the County of Surrey, Engineer, for an invention for—"Certain improvements in the construction of water gauges for steam-boilers." *Letters Patent sealed.*

MAY.
19th March 1858.

570. JOHN MATTHEW MAY, of the firm of Alexander Moench and Company, of Lambeth Hill, in the City of London, Importers, for an invention for—"Improvements in fastenings for porte-monnaies, travelling bags, ladies' companions, cigar, writing, and instrument cases, fusee boxes, and other like cases of receptacles."—*A communication from Jacob Moench and Company.* *Letters Patent sealed.*

EVANS.
19th March 1858.

571. DANIEL EVANS, of 15, Railway Terrace, New Town Stratford, in the County of Essex, for an invention for—"An improvement in apparatus for supplying air in streams to furnaces." *Letters Patent sealed.*

MUNTZ.
19th March 1858.

572. GEORGE FREDERICK MUNTZ, of French Walls, near Birmingham, for an invention for—"Improvements in mixing zinc with copper and other metals." *Provisional protection only.*

YOUNG.
19th March 1858.

573. JAMES YOUNG, of Knaresborough, in the County of York, Watch Maker, for an invention for—"Improvements in chronometers, clocks, and watches." *Letters Patent sealed.*

BRAMWELL.
19th March 1858.

574. JOHN BRAMWELL, of Buxton, in the County of Derby, Engineer, for an invention for—"Improvements in apparatus for the prevention of accidents arising from the escape of gas." *Letters Patent sealed.*

MENNONS.
20th March 1858.

575. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, E.C., for an invention for—"Certain improvements in the piercing of tunnels."—*A communication.* *Provisional protection only.*

HAIGH.
20th March 1858.

576. WILLIAM HAIGH, of Reddish, in the County of Lancaster, Paper Maker, for an invention for—"Improvements in the manufacture of a certain description of paper and in the machinery connected therewith." *Provisional protection only.*

HARRIS.
20th March 1858.

577. DANIEL HARRIS, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful or improved sewing-machine." *Complete specification; Letters Patent sealed*

PARSONS.
DEMPSEY.
20th March 1858.

578. PERCIVAL MOSES PARSONS, of Duke Street, Adelphi, London, and WILLIAM DEMPSEY, of Great George Street, Westminster, Civil Engineers, for an invention for—"Improvements in the construction of switches and crossings for railways." *Provisional protection only.*

COWELL.
20th March 1858.

579. LAMBERT COWELL, of Adelphi, in the County of Middlesex, Gentleman, for an invention for—"Improvements in machinery or apparatus for teaching the art of swimming." *Letters Patent sealed and specification filed, by order.*

BROOKS.
20th March 1858.

580. JAMES BROOKS, of Elton, near Bury, in the County of Lancaster, for an invention for—"Improvements in drawing frames used in the manufacture of cotton and other fibrous materials." *Provisional protection only.*

MILLS.
20th March 1858.

581. RICHARD MILLS, of Bury, in the County of Lancaster, for an invention for—"Improvements in washing-machines." *Letters Patent sealed.*

BROWNE.
20th March 1858.

582. PATRICK BROWNE, of Liverpool, in the County of Lancaster, Engineer, for an invention for—"Improvements in the screw propeller, partly applicable to the raising of fluids." *Provisional protection only.*

BIGGS.
BIGGS.
20th March 1858.

583. JOHN BIGGS, and WILLIAM BIGGS, of Leicester, in the County of Leicester, Manufacturers of Hosiery, for an invention for—"An improvement in the manufacture of polkas when looped or elastic fabrics are used." *Letters Patent sealed.*

ALLEN.
20th March 1858.

584. WILLIAM ALLEN, of Arthur Street, Coventry Road, Birmingham, in the County of Warwick, for an invention for—"Improvements in machinery for manufacturing screws." *Provisional protection only.*

LE FRANC.
20th March 1858.

585. JULES LE FRANC, of 58, Aldersgate Street, for an invention for—"Improvements in pressure gauges."—*A communication from Jules Rival, residing at Paris.* *Letters Patent sealed.*

NEWTON.
20th March 1858.

586. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in sewing-machines."—*A communication.* *Letters Patent sealed.*

NEWTON.
20th March 1858.

587. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of treating and combining various combustible matters or substances for the production of artificial fuel."—*A communication from the Widow Couillard and Company, of Paris and Rouen.* *Letters Patent sealed.*

PITMAN.
20th March 1858.

588. JOHN TALBOT PITMAN, of the American and European Patent Offices, 67, Gracechurch Street, London, for an invention for—"Improvements in the manufacture of soap and in the apparatus connected therewith."—*A communication from Campbell Morfit, of Baltimore, in the State of Maryland, one of the United States of America.* *Letters Patent sealed.*

PITMAN.
20th March 1858.

589. JOHN TALBOT PITMAN, of the American and European Patent Offices, 67, Gracechurch Street, London, for an invention for—"Improvements in the mode of preparing and moulding clay into bricks, tiles, pipes, and other similar manufactures."—*A communication from a Citizen of the United States of America.* *Provisional protection only.*

BROOMAN.
22nd March 1858.

590. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in apparatuses for exhibiting daguerreotype, photographic, and other stereoscopic views and pictures."—*A communication.* *Provisional protection only.*

MANWARING.
22nd March 1858.

591. EDWARD JOHN MANWARING, of Lee, in the County of Kent, Gentleman, for an invention for—"Improvements applicable to stereoscopic apparatus." *Letters Patent sealed.*

THOMAS.
22nd March 1858.

592. JAMES THOMAS, of Hackney, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for counting and registering or paging." *Letters Patent sealed.*

BAYLEY.
22nd March 1858.

593. CHARLES CHEETHAM BAYLEY, of Manchester, in the County of Lancaster, Gentleman, for an invention for—"An improved method of supplying the feed water to boilers, and in the apparatus connected therewith." *Provisional protection only.*

DAVIES.
22nd March 1858.

594. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in the metallization of objects for the electrotype or galvanoplastic process."—*A communication from C. P. Nezeraux, of Passy, near Paris.* *Provisional protection only.*

JUCKES.
22nd March 1858.

595. JOHN JUCKES, of Dame Street, Wharf Road, City Road, Islington, for an invention for—"Improvements in apparatus for supplying coals to stoves and fireplaces." *Provisional protection only.*

LESTER.
22nd March 1858.

596. AARON LESTER, of Coventry, in the County of Warwick, Ribbon Designer, for an invention for—"Improvements in weaving ribbons, fringes, trimmings, and other narrow fabrics." *Letters Patent sealed.*

HOLDEN.
HUBNER.
22nd March 1858.

597. ISAAC HOLDEN, of St. Denis, Manufacturer, and EMILE HUBNER, of Müllhouse, Engineer, both in the Empire of France, for an invention for—"Improvements in preparing, heckling, or combing flax, silk, wool, and other fibres." *Letters Patent sealed.*

WRIGHT.
22nd March 1858.

598. JAMES WRIGHT, of 10, Alfred Place, Newington Causeway, County of Surrey, Civil Engineer, for an invention for—"An improved method of and apparatus for punching rolled metal plates and angle iron."—*A communication.* *Provisional protection only.*

JOWETT.
22nd March 1858.

599. HENRY ALFRED JOWETT, of Sawley, in the County of Derby, Civil Engineer, for an invention for—"Improvements in machinery for transmitting telegraphic communications and making signals, applicable to railways and other purposes." *Provisional protection only.*

MULLER.
23rd March 1858.

600. HENRI LAURENT MULLER, of Paris, France, Printer, for an invention for—"Improvements in chromographic printing." *Letters Patent sealed.*

ATHERTON.
23rd March 1858.

601. CHARLES ATHERTON, of Her Majesty's Dockyard, Woolwich, in the County of Kent, Civil Engineer, for an invention for—"Improvements in furnaces, fire-grates, and stoves." *Provisional protection only.*

STOCKER.
23rd March 1858.

602. ALEXANDER SOUTHWOOD STOCKER, of No. 18, Wimpole Street, Cavendish Square, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in the manufacture of railway axles and tubes." *Provisional protection only.*

MOULD.
23rd March 1858.

603. WILLIAM MOULD, of Bolton, in the County of Lancaster, Dresser, for an invention for—"Improvements in machinery or apparatus for preparing and spinning fibrous materials." *Provisional protection only.*

ROWBOTTOM.
STANDEVEN.
23rd March 1858.

604. JOHN ROWBOTTOM, of Halifax, in the County of York, Gas Engineer, and THOMAS STANDEVEN, of the same place, Millwright, for an invention for—"Improvements in washing, wringing, and mangling machines." *Letters Patent sealed.*

WILEY.
23rd March 1858.

605. WILLIAM EDWARD WILEY, of 34, Great Hampton Street, Birmingham, Pen and Pencil Manufacturer, for an invention for—"Improvements in ever-pointed pencils." *Letters Patent sealed.*

CLIFFORD.
23rd March 1858.

606. CHARLES CLIFFORD, of the Inner Temple Lane, London, for an invention for—"Improvements in ships' davits, and in apparatus for stowing, lowering, and securing boats." *Letters Patent sealed.*

COULON.
23rd March 1858,

607. EUGÉNE COULON, of Croisset, near Rouen, France, for an invention for—"Improvements in preventing the incrustation of steam-boilers."—*A communication.* *Letters Patent sealed.*

PETERS.
23rd March 1858.

608. EDWARD PETERS, of Grimsby, for an invention for—"Improvements in burning bricks and other articles made of brick earth and clay."—*A communication.* *Provisional protection only.*

KEITH.
23rd March 1858.

609. WILLIAM SAXBY KEITH, of York Street, Southwark, County of Surrey, Surgical Instrument Maker, for an invention for—"An improved rotatory cutting machine." *Letters Patent sealed.*

QUINTIN.
23rd March 1858.

610. CHARLES FRANCIS QUINTIN, of Cheltenham, in the County of Gloucester, for an invention for—"A kneading machine." *Letters Patent sealed.*

RAMSELL.
23rd March 1858.

611. WILLIAM RAMSELL, of Deptford, Foreman of Boiler Makers, for an invention for—"Improvements in furnaces and fire-places." *Provisional protection only.*

WILSON.
24th March 1858.

612. JOHN CRAWFORD WILSON, residing at No. 11, Soley Terrace, Pentonville, and in the County of Middlesex, for an invention for—"An improved method for introducing elastic substances into articles of wearing-apparel, and the adaptation thereof to the manufacture of certain useful garments in which elasticity is required." *Letters Patent sealed.*

JACKSON.
24th March 1858.

613. RICHARD JACKSON, of Calder Vale, Garstang, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in machinery or apparatus for spinning cotton and other fibrous substances." *Provisional protection only.*

GERNER.
24th March 1858.

614. HENRY GERNER, of No. 10, Newton Road, Bayswater, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in apparatus for the manufacture of gas from oils or fatty or resinous matters." *Letters Patent sealed.*

CHEVALLIER.
OLIVIER.
ROLLAND.
24th March 1858.

615. CHARLES CHEVALLIER, MARK ISIDORE OLIVIER, and EUGENE ROLLAND, all of the City of Brussels, in the Kingdom of Belgium, for an invention for—"A machine for making and applying as soles to shoes and boots gutta-percha, caoutchouc, and other analogous substances adapted for that purpose." *Letters Patent sealed.*

MENNONS. 24th March 1858.

616. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, E.C., for an invention for—"Certain improvements in the construction of heating apparatus."—*A communication.* *Letters Patent sealed.*

KOTTULA. 24th March 1858.

617. CONSTANTINE NICOLAUS KOTTULA, of Liverpool, in the County of Lancaster, Soap Manufacturer, for an invention for—"Improvements in purifying soda leys, whereby they are rendered capable of saponifying all fatty matters or resins used in the manufacture of soap." *Letters Patent sealed.*

KOTTULA. 24th March 1858.

618. CONSTANTINE NICOLAUS KOTTULA, of Liverpool, in the County of Lancaster, Soap Manufacturer, for an invention for—"Improvements in the manufacture of compact neutral soap." *Letters Patent sealed.*

KOTTULA. 24th March 1858.

619. CONSTANTINE NICOLAUS KOTTULA, of Liverpool, in the County of Lancaster, Soap Manufacturer, for an invention for—"An improvement in the manufacture of neutral hand or skin soap." *Letters Patent sealed.*

BIDDELL. BALK. 24th March 1858.

620. GEORGE ARTHUR BIDDELL, and WILLIAM BALK, both of Ipswich, Suffolk, Engineers, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

BRINJES. COLLINS. 24th March 1858.

621. JOHN FREDERICK BRINJES, the younger, of 25, Fieldgate Street, Whitechapel, in the County of Middlesex, and HENRY JOSEPH COLLINS, of West Hill, Wandsworth, in the County of Surrey, Architect, for an invention for—"Improvements in the manufacture and reburning of animal charcoal." *Letters Patent sealed.*

WOOD. WOOD. 24th March 1858.

622. WILLIAM WOOD, and ROBERT WOOD, of Radcliffe, in the County of Lancaster, Cotton Spinners, for an invention for—"Improvements in machinery or apparatus for spinning, doubling, and sizing yarns or threads." *Letters Patent sealed.*

HIELAKKER. 24th March 1858.

623. JEAN VANDEN HIELAKKER, Engineer, of Brussels, in the Kingdom of Belgium, for an invention for—"An improved machine for compressing coal, other fuel, and substances requiring pressure." *Letters Patent sealed.*

THIRION. 24th March 1858.

624. ALBERT LOUIS THIRION, Pastor, of Aische-en-Refail, Province of Namur, in the Kingdom of Belgium, for an invention for—"An improved method of transforming circular movements." *Letters Patent sealed.*

CLARK. 25th March 1858.

625. WILLIAM STETTINIUS CLARK, of Atlas Works, Upper Park Place, Dorset Square, in the County of Middlesex, for an invention for—"Improvements in the construction of railways."—*A communication from Sidney A. Beers, Engineer, New York, America.* *Letters Patent sealed.*

HOPKINS. 25th March 1858.

626. DAVID A. HOPKINS, of Paterson, in the County of Passaic, and State of New Jersey, in the United States of America, for an invention for—"Improvements in journal boxes." *Letters Patent sealed.*

CROOK. 25th March 1858.

627. WILLIAM CROOK, of Blackburn, in the County of Lancaster, for an invention for—"Improvements in looms." *Letters Patent sealed.*

NUTTALL. 25th March 1858.

628. JAMES NUTTALL, of Walmersley, near Bury, in the County of Lancaster, Pattern Designer, for an invention for—"Improvements in looms." *Letters Patent sealed.*

ELLIS. 25th March 1858.

629. GEORGE HENRY ELLIS, of New Malton, in the County of York, Ironmonger, for an invention for—"Improvements in kitchen ranges." *Provisional protection only.*

NEWTON. 25th March 1858.

630. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the means of and lamps for burning certain kinds of oils and hydro-carbons."—*A communication from Mr. Frédéric Jacquemart, of Paris.* *Provisional protection only.*

HAECK. 25th March 1858.

631. FRANÇOIS HAECK, of 14, Place de la Reine, Brussels, in the Kingdom of Belgium, Gentleman, for an invention for—"Improvements in pumps for pumping beer, wine, vinegar, oils, or other liquids containing acids or oily matters."—*A communication.* *Letters Patent sealed.*

FOUCOU. 25th March 1858.

632. FELIX FOUCOU, of No. 44, Rue Caumartin, in the City of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in steam-boiler and other furnaces." *Letters Patent sealed.*

RICHARDS. 25th March 1858.

633. WESTLEY RICHARDS, of Birmingham, Gun Manufacturer, for an invention for—"Improvements in breech-loading guns and fire-arms." *Letters Patent sealed.*

YOUNG. 25th March 1858.

634. JAMES YOUNG, of Knaresboro', in the County of York, Watch Maker, for an invention for—"Improved apparatus for signalling on railways by day and night." *Letters Patent sealed.*

ROBJOHN. 25th March 1858.

635. WILLIAM ROBJOHN, of Stanhope Street, Hampstead Road, in the County of Middlesex, Organ Builder, for an invention for—"Certain improvements in organs." *Letters Patent sealed.*

CHEVALLIER. 25th March 1858.

636. FRANÇOIS AUGUSTE CHEVALLIER, of Paris (Empire of France), and of 45, Essex Street, Strand, London, for an invention for—"Improvements in photographic apparatus." *Letters Patent sealed.*

BROOMAN. 26th March 1858.

637. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in weighing machines."—*A communication from P. A. Brussaut.* *Letters Patent sealed.*

MOXON. CLAYTON. FEARNLEY. 26th March 1858.

638. WILLIAM MOXON, JOHN CLAYTON, and SAMUEL FEARNLEY, all of Bluepits, in the County of Lancaster, Engineers, for an invention for—"Improvements in machinery for paying out electric telegraph cables, ropes, and other like articles." *Letters Patent sealed.*

BÉRARD. 26th March 1858.

639. PIERRE HIPPOLYTE GUSTAVE BÉRARD, of 323, Rue St. Denis, Paris, in the Empire of France, for an invention for—"Applying concentrated collodion to the effect of superseding caoutchouc in waterproofing stuffs of all descriptions for manufacturing garments and wearing articles, and also for applying it over painted surfaces instead of varnish." *Letters Patent sealed.*

PARKES. 26th March 1858.

640. JOSEPH PARKES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in eyelets." *Provisional protection only.*

HORTON. 26th March 1858.

641. JOSHUA HORTON, of Smethwick, in the County of Stafford, Manufacturer, for an invention for—"An improvement or improvements in the construction of the girders used in the guide framing of gas holders." *Letters Patent sealed.*

BUTT. 26th March 1858.

642. ROBERT MORE BUTT, of Fairfield Works, Bow, for an invention for—"Improvements in the manufacture of night lights." *Letters Patent sealed.*

DOULTON. 26th March 1858.

643. HENRY DOULTON, of Lambeth, in the County of Surrey, for an invention for—"An improvement in the manufacture of invert blocks used in constructing sewers and drains." *Letters Patent sealed.*

SCHLŒSING. ROLLAND. 26th March 1858.

644. JEAN JACQUES THEOPHILE SCHLŒSING, of No. 22, Rue d'Austerlitz, in the City of Paris, and EUGÈNE ROLLAND, of No. 21, Rue de Bellechasse, in the City of Paris, aforesaid, for an invention for—"Improvements in the manufacture of carbonates of soda." *Letters Patent sealed.*

NEWTON. 26th March 1858.

645. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved machine for performing the addition of numbers, quantities, or sums of money, to be termed the 'Arithmometer.'"—*A communication.* *Provisional protection only.*

JEANNE. MARTIN. 27th March 1858.

646. VICTOR FRANÇOIS JEANNE, and EDMOND MICHEL GERMAIN MARTIN, of Paris (France), and of 45, Essex Street, Strand, London, for an invention for—"A machine for breaking stones." *Provisional protection only.*

NEWMAN. NEWMAN. 27th March 1858.

647. JOHN NEWMAN, and JOHN FREDERICK NEWMAN, both of 122, Regent Street, in the County of Middlesex, Opticians, for an invention for—"Improvements in spectacles." *Letters Patent sealed.*

WILLIAMS. 27th March 1858.

648. RICHARD WILLIAMS, of No. 8, Bishop's Road, Victoria Park, in the County of Middlesex, Soap Boiler, for an invention for—"An improvement for manufacturing a soap for cleansing, bleaching, and purifying purposes." *Complete specification; protection for* SIX *months only.*

JONES. 27th March 1858.

649. EDGAR CHICHESTER JONES, of Caroline Street, Bedford Square, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in railway brakes." *Provisional protection only.*

BUSHELL. WRIGHT. 27th March 1858.

650. JOSEPH BUSHELL, Engineer, and THOMAS WRIGHT, Tin Plate Worker, both of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements which make grids for covering openings through which fuel is deposited in vaults or cellars self-securing." *Letters Patent sealed.*

BURROWS. 27th March 1858.

651. BENJAMIN BURROWS, of Leicester, for an invention for—"Improvements in weaving webs or narrow goods and in ornamenting elastic webs." *Letters Patent sealed.*

ELEY. 27th March 1858.

652. WILLIAM THOMAS ELEY, of Broad Street, Golden Square, for an invention for—"Improvements in cartridges." *Letters Patent sealed.*

WELCH. 27th March 1858.

653. JAMES WELCH, of Southall, in the County of Middlesex, for an invention for—"Improvements in portable railways, and in the means of their application to carriages to facilitate their movements on common roads and other surfaces." *Letters Patent sealed.*

BURQ. 27th March 1858.

654. JEAN ANTOINE VICTOR BURQ, of Paris, France, Doctor of Medicine, for an invention for—"Improvements in weighing-machines." *Letters Patent sealed.*

GILBEE. 27th March 1858.

655. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Improvements in treating saccharine fluids."—*A communication.* *Letters Patent sealed.*

BOUSFIELD. 27th March 1858.

656. FREDERICK BOUSFIELD, of 20, Hereford Terrace, De Beauvoir Road, Kingsland, for an invention for—"Improvements in apparatus to facilitate the production of duplicate writings." *Letters Patent sealed.*

GILBEE. 29th March 1858.

657. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Improvements in treating brandies and other spirituous liquids for improving their quality."—*A communication.* *Letters Patent sealed.*

GARNETT. GELDARD. DUGDALE. 29th March 1858.

658. WILLIAM GARNETT, of Low Moor, near Clitheroe, in the County of Lancaster, Cotton Spinner and Manufacturer, CHRISTOPHER GELDARD, of the same place, Manager, and JOHN DUGDALE, of Blackburn, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

BRECKON. DIXON. 29th March 1858.

659. JOHN ROBERT BRECKON, of Darlington, in the County of Durham, Accountant and Colliery Manager, and ROBERT DIXON, of Crook, in the said County of Durham, Mechanical Engineer, for an invention for—"Improvements in the construction of coke ovens." *Letters Patent sealed.*

CHADWICK. 29th March 1858.

660. WILLIAM CHADWICK, of Bury, in the County of Lancaster, Tin Plate Worker, for an invention for—"Improvements in the hoods or tops and in the foot steps and bearings of ventilators." *Letters Patent sealed.*

SPENCER. 29th March 1858.

661. JOHN FREDERICK SPENCER, of No. 1, Adelaide Place, London Bridge, Marine Engineer, for an invention for—"Improvements in marine engines." *Letters Patent sealed.*

HORTON. 29th March 1858.

662. JOSHUA HORTON, of Smethwick, in the County of Stafford, Manufacturer, for an invention for—"New or improved machinery to be employed in punching metals." *Letters Patent sealed.*

BAILLIE. 29th March 1858.

663. JOHN BAILLIE, of No. 167, Carolinen Gasse, in the City of Vienna, and Empire of Austria, Civil Engineer, for an invention for—"An improved construction of coiled spring." *Letters Patent sealed.*

DURAND. 29th March 1858.

664. JEAN CLAUDE DURAND, of Pimlico, in the County of Middlesex, Engineer, for an invention for—"An improvement in the manufacture of chain cables." *Letters Patent sealed.*

BROWN. BROWN. 29th March 1858.

665. ISAAC BROWN, of the City of Carlisle, Merchant, and JOHN BROWN, of Notting Hill, in the County of Middlesex, Merchant, for an invention for—"Improvements in the manufacture or production of manure." *Letters Patent sealed.*

PATERSON. 29th March 1858.

666. GEORGE PATERSON, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in apparatus for effecting the combustion of fuel and the consumption or prevention of smoke, applicable to boiler furnaces." *Provisional protection only.*

JACQUIN. 29th March 1858.

667. EDMOND AUGUSTE JACQUIN, of Rue des Lavandières Ste. Opportune, Paris, for an invention for—"An improvement in preparing plates for printing."—*A communication from Monsieur Henry Garnier of Paris.* *Letters Patent sealed.*

DAVIS. HARPER. 29th March 1858.

668. WILLIAM DAVIS, of 11, George Street, Chicks Buildings, St. Phillip's, Bristol, and THOMAS HARPER, of Brewery House, Broadplaines, St Phillip's, Bristol, for an invention for—"Improvements in apparatus for cutting soap." *Letters Patent sealed.*

HARDING. 29th March 1858.

669. WILLIAM HARDING, of Forest Hill, in the County of Kent, for an invention for—"Improvements in revolver fire-arms, and in apparatus for manufacturing projectiles." *Letters Patent sealed.*

ROBINSON. COTTAM. 30th March 1858.

670. FREDERIC ROBINSON, and EDWARD COTTAM, of Pimlico, in the City of Westminster, in the County of Middlesex, Engineers, for an invention for—"Improvements in hydrostatic and other presses." *Letters Patent sealed.*

DURAND. 30th March 1858.

671. JEAN CLAUDE DURAND, of Pimlico, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

WEALLENS. 30th March 1858.

672. WILLIAM WEALLENS, of 12, Elswick Villas, Newcastle-upon-Tyne, Mechanical Engineer, for an invention for—"Improvements in parabolic governors and in the mode of applying the same to steam-engines." *Letters Patent sealed.*

SILVER. 30th March 1858.

673. THOMAS SILVER, of Philadelphia, United States, Gentleman, for an invention for—"Pulsating valves or governors." *Letters Patent sealed.*

STEVEN. REID. FREW. 30th March 1858.

674. THOMAS STEVEN, Ironfounder, THOMAS REID, Foreman Moulder, and THOMAS FREW, Foreman Pattern Maker, all of Glasgow, in the County of Lanark, North Britain, for an invention for—"Improvements in making moulds for casting." *Letters Patent sealed.*

WOOD. 30th March 1858.

675. BENJAMIN WOOD, of Huddersfield, in the County of York, for an invention for—"Improvements in machinery or apparatus for cleansing the waste of woollen or other fibrous manufactures." *Letters Patent sealed; no specification filed.*

WHITEHEAD. 30th March 1858.

676. WALTER GEORGE WHITEHEAD, of the firm of Anthony Whitehead and Harris, of Birmingham, in the County of Warwick, Manufacturers, for an invention for—"A new or improved waterproof paper." *Provisional protection only.*

NEWTON. 30th March 1858.

677. WILLIAM EDWARD NEWTON, of the Office for Patents, 66 Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of sheet iron."—*A communication.* *Provisional protection only.*

OLDFIELD. DIXON. 30th March 1858.

678. WILLIAM OLDFIELD, of Skipton, in the County of York, Optician, and THOMAS OGDEN DIXON, of Steeton, in the same County, Manufacturer, for an invention for—"Improvements in gas burners." *Letters Patent sealed.*

GATTY. 31st March 1858.

679. FREDERICK ALBERT GATTY, of Accrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in treating certain compounds containing the coloring matter of madder." *Letters Patent sealed.*

MUSGRAVE. 31st March 1858.

680. JOHN MUSGRAVE, the younger, of the Globe Iron Works, Bolton-le-Moors, in the County of Lancaster, Iron Founder, for an invention for—"The application of the heat from the furnaces of singeing or dressing plates to generating steam and drying purposes, and improvements in the construction of such furnaces." *Letters Patent sealed.*

WESTHEAD. BAINES. 31st March 1858.

681. MARCUS BROWN WESTHEAD, of Manchester, in the County of Lancaster, Merchant, and HUGH BAINES, of the same place, Gentleman, for an invention for—"Certain improved apparatus for coupling or connecting carriages, wagons, trucks, vans, and engines used or employed upon railways." *Provisional protection only.*

DUCE. 31st March 1858.

682. JOSEPH WARNER DUCE, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—"Improvements in locks and latches, and in attaching knobs to lock and latch spindles." *Letters Patent sealed.*

TODÉ. 31st March 1858.

683. EDWARD HENRI TODÉ, of Peckham, in the County of Surrey, Printer, for an invention for—"Improvements in apparatus for generating steam in steam-boilers by means of gas." *Provisional protection only.*

WHITEHEAD. 31st March 1858.

684. JAMES HEYWOOD WHITEHEAD, of the Royal George Mills, Saddleworth, in the County of York, Woollen Manufacturer, for an invention for—"Improvements in making woollen bags." *Provisional protection only.*

CROKER. 31st March 1858.

685. BLAND W. CROKER, of Vienna, in the Empire of Austria, Civil Engineer, for an invention for—"Improvements in axle-boxes to render them self-lubricating." *Provisional protection only.*

MERCER. 31st March 1858.

686. JAMES MERCER, of Cambridge, in the United States of America, temporarily resident at Liverpool, in the County of Lancaster, Currier, for an invention for—"Improvements in the manufacture of leather." *Letters Patent sealed.*

EDWARDS. EDWARDS. 31st March 1858.

687. FREDERICK EDWARDS, of Hillfields, in the City of Coventry, Machinist, and WILLIAM EDWARDS, of Howard Street, in the said City of Coventry, Machinist, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

NAPIER. 31st March 1858.

688. HENRY NAPIER, of Hyde Road, Ardwick, in the City of Manchester and County Palatine of Lancaster, Manufacturing Chemist, for an invention for—"An improved process in the production of volatile oil of resin." *Letters Patent sealed.*

JOHNSON. 31st March 1858.

689. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in articles of buoyancy to be used either for swimming or for the saving of life from drowning."—*A communication from Pierre Mazard and Company, of Lyons, in the Empire of France.*
Provisional protection only.

PETER. 31st March 1858.

690. ROBERT PETER, of Dundee, in the County of Forfar, North Britain, Mill Manager, for an invention for—"Improvements in gill machinery for the preparation or manufacture of textile materials." *Letters Patent sealed.*

BARR. 31st March 1858.

691. ROBERT BARR, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in machinery or apparatus for making rivets, spikes, nails, and screw blanks, and similar articles in metal."
Provisional protection only.

PELEZ. 1st April 1858.

692. ANTONIO PELEZ, of 9A, Mortimer Street, Cavendish Square, in the County of Middlesex, for an invention for—"Improvements in hydraulic machines."—*A communication.* *Letters Patent sealed.*

COLETTE. 1st April 1858.

693. EMILE AUGUSTIN COLETTE, residing at Dieppedalle, near Rouen, in the Depart of Seine Inférieure, in France, for an invention for—"Hashing meat with a mechanical chopping-board." *Letters Patent sealed.*

DADLEY. BROUGH. 1st April 1858.

694. ARTHUR PERKS DADLEY, of New Hall Street, Birmingham, in the County of Warwick, Gilt Toy and Clasp Manufacturer, and NEHEMIAH BROUGH, also of Birmingham, aforesaid, Machinist, for an invention for—"An improved buckle or metallic adjuster for adjusting braces, belts, garters, and such like articles of dress." *Letters Patent sealed.*

TAVERNIER. TAVERNIER. 1st April 1858.

695. FERDINAND RAPHAEL TAVERNIER, and JOSEPH AMÉDÉE FRANCIS TAVERNIER, 213, Rue Saint Dominique, St. Germain, Paris, in the Empire of France, for an invention for—"Improvements in machinery for combing wool or other fibrous materials." *Letters Patent sealed.*

OOSTERLINCK. 1st April 1858.

696. FRANÇOIS JULES EMILE OOSTERLINCK, of Paris, France, Gentleman, for an invention for—"An improved valve or plug for the passage of water or other fluids." *Letters Patent sealed.*

WARD. 1st April 1858.

697. HENRY WARD, of the City of Hamburgh, Engineer, for an invention for—"Improved machinery for expressing liquids from organic substances." *Letters Patent sealed.*

NEWTON. 1st April 1858.

698. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for manufacturing corks."—*A communication.* *Letters Patent sealed.*

BENTLEY. 1st April 1858.

699. HENRY BENTLEY, of Horton, near Bradford, in the County of York, Manufacturer, for an invention for—"Certain improvements in machinery or apparatus employed in preparing and spinning worsted and other fibrous substances." *Provisional protection only.*

BOARDMAN. ALLCOCK. 1st April 1858.

700. THOMAS BOARDMAN, of Pendleton, near Manchester, in the County of Lancaster, and JOHN ALLCOCK, of Stockport, in the County of Chester, for an invention for—"Improvements in looms." *Letters Patent sealed.*

RUSSELL. 1st April 1858.

701. CHARLES GOURLEY RUSSELL, of the City of Manchester, in the County of Lancaster, Lithographic Printer, for an invention for—"Improvements in machinery or apparatus for printing." *Letters Patent sealed.*

ROBINSON. 1st April 1858.

702. THOMAS FREDERICK ROBINSON, of Halifax, in the County of York, Cork Manufacturer, for an invention for—"Improvements in apparatus for cutting cork." *Letters Patent sealed.*

GREENSHIELDS. 3rd April 1858.

703. THOMAS GREENSHIELDS, of No. 11, Little Titchfield Street, London, for an invention for—"Improvements in treating ammoniacal liquor produced from coal in making gas, and obtaining useful products for making artificial manures." *Letters Patent sealed.*

PELEZ. 3rd April 1858.

704. ANTONIO PELEZ, of 9A, Mortimer Street, Cavendish Square, in the County of Middlesex, for an invention for—"A new apparatus for deepening rivers and rendering them navigable." *Letters Patent sealed.*

GÂCHE. 3rd April 1858.

705. VINCENT GÂCHE, aîné, Engineer, residing at Nantes, in France, for an invention for—"An improvement in the construction of steam-engines for the use of vessels." *Letters Patent sealed.*

PELEZ. 3rd April 1858.

706. ANTONIO PELEZ, of 9A, Mortimer Street, Cavendish Square, in the County of Middlesex, for an invention for—"A circular cutter."—*A communication.* *Letters Patent sealed.*

PELEZ. 3rd April 1858.

707. ANTONIO PELEZ, of 9A, Mortimer Street, Cavendish Square, in the County of Middlesex, for an invention for—"A new steam piston for horizontal and vertical engines."—*A communication.* *Letters Patent sealed.*

JOHNSON. 3rd April 1858.

708. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in ships' propellers."—*A communication from Benjamin Hill, at present residing at Rochester, in the United States of America.* *Letters Patent sealed and specification filed, by order.*

TRESS. 3rd April 1858.

709. COOPER TRESS, of Blackfriars Road, in the County of Surrey, Hat Manufacturer, for an invention for—"Improvements in or applicable to the class of hats made from palm leaf, grass, chip, tuscan, leghorn, panama straw, and other like materials." *Letters Patent sealed.*

FOWLER. 3rd April 1858.

710. JOHN FOWLER, Junior, of 28, Cornhill, Engineer, for an invention for—"Improvements in apparatus used when ploughing, tilling, or cultivating land by steam-power." *Letters Patent sealed.*

CROWLEY. 3rd April 1858.

711. WILLIAM CROWLEY, of Newport Pagnell, in the County of Buckingham, for an invention for—"Improvements in combining and working ploughs." *Letters Patent sealed.*

MORRISON. 3rd April 1858.

712. DUNCAN MORRISON, of Birmingham, for an invention for—"Improvements in boiling oils." *Provisional protection only.*

CARTWRIGHT. 3rd April 1858.

713. HENRY CARTWRIGHT, of the Dean Brosely, in the County of Shropshire, Farmer, for an invention for—"Improvements in the construction of eccentrics, and in the mode of working them when applied to steam-engines."—*Letters Patent sealed.*

EDWARDS. 3rd April 1858.

714. ELIEZER EDWARDS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of finger plates for doors and other articles of like manufacture." *Letters Patent sealed.*

MINTON. THOMAS. 3rd April 1858.

715. SAMUEL MINTON, Mining Engineer, and RICHARD HANDLEY THOMAS, Engineer, both of Clough Hall Collieries, Staffordshire, for an invention for—"An improved construction of battery." *Letters Patent sealed.*

TARGETT. 3rd April 1858.

716. ROBERT TARGETT, of Windmill Street, Finsbury, in the County of Middlesex, Glass and Lamp Dealer, for an invention for—"Improvements applicable to lamp glasses or shades." *Letters Patent sealed.*

NEWTON.
3rd April 1858.

717. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in machinery for cutting veneers."—*A communication.*
Provisional protection only.

STOBBS.
HALL.
3rd April 1858.

718. JOHN STOBBS, of Sydney Street, North Shields, and GEORGE ROGER HALL, of Linskill Street, North Shields, in the County of Northumberland, for an invention for—"Improvements in pumps for raising water and other liquids."
Provisional protection only.

CLARK.
5th April 1858.

719. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"An improved construction water tank for ships and other vessels, and mode of applying the same on board a vessel whereby it is capable of conversion into a float for saving life and property in case of the foundering of the vessel."—*A communication.* *Letters Patent sealed.*

CLARK.
5th April 1858.

720. WILLIAM STETTINIUS CLARK, of the Atlas Works, Upper Park Place, Dorset Square, in the County of Middlesex, for an invention for—"Improvements in grain and grass harvesting machines, and in the automatic delivery thereof of cut grain."—*A communication.* *Letters Patent sealed.*

DIEULAFAIT.
5th April 1858.

721. JULES CLOVIS DIEULAFAIT, of 2, Rue Sainte Appoline, Paris (Empire of France), and of 45, Essex Street, Strand, London, for an invention for—"An improved method of manufacturing garments whereby one garment may be changed in form to that of several others." *Provisional protection only.*

SMITH.
5th April 1858.

722. JOHN SMITH, of Oldham, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in the manufacture of pile fabrics."
Letters Patent sealed.

GROOMBRIDGE.
GROOMBRIDGE.
MUSSELWHITE.
5th April 1858.

723. RICHARD COLEMAN HENRY GROOMBRIDGE, and HENRY GROOMBRIDGE, both of No. 5, Paternoster Row, in the City of London, Publishers, and JOHN MUSSELWHITE, of No. 19, Aldersgate Street, in the City of London, Accountant, for an invention for—"Improvements in a black board and apparatus for teaching music." *Provisional protection only.*

FOX.
CHESTERMAN.
5th April 1858.

724. SAMUEL FOX, of Stocksbridge Works, Deepcar, in the County of York, Umbrella Manufacturer, and JAMES CHESTERMAN, of Sheffield, in the same County, Manufacturer, for an invention for—"Improvements in stays or corsets, and in the manufacture of steel employed therein and applicable to other articles of dress."
Letters Patent sealed.

SARONY.
5th April 1858.

725. OLIVER SARONY, of Scarborough, in the County of York, Photographic Artist, for an invention for—"Improvements in producing photographic portraits."
Letters Patent sealed.

VAN ELVEN.
6th April 1858.

726. LOUIS TÉTAR VAN ELVEN, of Clapham Road, in the County of Surrey, Engineer, for an invention for—"Improvements in apparatuses for raising and lowering weights and bodies." *Provisional protection only.*

WEBSTER.
6th April 1858.

727. WILLIAM BULLOCK WEBSTER, of Adam Street, in the County of Middlesex, Gentleman, for an invention for—"An improvement in the making of butter."
Provisional protection only.

WETHERELL.
GRAY.
6th April 1858.

728. HENRY WETHERELL, and GEORGE GRAY, of Upper Chapman Street, in the County of Middlesex, Zinc Workers, for an invention for—"An apparatus for preventing down draughts and currents in chimneys, flues, and shafts."
Provisional protection only.

OWEN.
6th April 1858.

729. EDWARD OWEN, of Blackheath, in the County of Kent, Chemist, for an invention for—"Improvements in the manufacture or production of artificial fuel and in the application of the same to metallurgical purposes."
Provisional protection only.

CAMP.
6th April 1858.

730. JOHN CAMP, of John Street, Tysoe Street, Clerkenwell, in the County of Middlesex, Bookbinder, for an invention for—"An improved construction of expanding portfolio." *Provisional protection only.*

HORNSBY.
6th April 1858.

731. RICHARD HORNSBY, Junior, of Spittlegate Works, Grantham, in the County of Lincoln, for an invention for—"Improvements in ploughs."
Letters Patent sealed.

CHADBURN. 6th April 1858.

732. CHARLES HENRY CHADBURN, of Liverpool, in the County of Lancaster, Optician, for an invention for—"Improvements in pressure guages." *Letters Patent sealed and specification filed, by order.*

SCHWIETZER. HOLDER. BROUGHTON. 6th April 1858.

733. HERMAN SCHWIETZER, JOSEPH HOLDER, and JOHN BROUGHTON, of Scarp Castle, Brighton, in the County of Sussex, Manufacturing Chemists, for an invention for—"Concentrating and retaining the valuable properties of farmyard and stable manure." *Provisional protection only.*

ERCKMANN. 6th April 1858.

734. JULES ERCKMANN, of Rue Faubourg St. Honoré, Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in galvanic batteries." *Provisional protection only.*

DAVY. BENTLEY. DAVY. 6th April 1858.

735. DENIS DAVY, WILLIAM BENTLEY, and JOSEPH DAVY, all of Bradford, in the County of York, for an invention for—"Certain improvements in looms employed for weaving." *Letters Patent sealed.*

BLANCHÉ. 6th April 1858.

736. BERNARD BLANCHÉ, of Bordeaux, in the Empire of France, and of 32, Essex Street, Strand, London, Merchant, for an invention for—"Using malacca and manilla cane instead of whalebone." *Provisional protection only.*

SANGSTER. 6th April 1858.

737. JOHN SANGSTER, of Newington, in the County of Surrey, Nurseryman, for an invention for—"Glazing in wood without putty." *Provisional protection only.*

ROSE. 6th April 1858.

738. JOHN ROSE, of Glasgow, in the County of Lanark, North Britain, Gentleman, for an invention for—"Apparatus for applying heat, cold, moisture, fumes, vapors, and other agents, in medicine and surgery."—*A communication.* *Provisional protection only.*

COLLYER. 6th April 1858.

739. ROBERT HANHAM COLLYER, of Marylebone, in the County of Middlesex, M.D. for an invention for—"Improvements in the manufacture of paper."—*A communication from Martin Nixon, of Philadelphia, in the United States of America.* *Provisional protection only.*

SIBILLE. 7th April 1858.

740. ETIENNE PIERRE SIBILLE, 11, Conduit Street, Regent Street, London, for an invention for—"A new apparatus for warming or cooling atmospheric air, water, and all liquids of a similar density to it, warming them to the degree of heat necessary for their transformation into steam." *Letters Patent sealed.*

CASARTELLI. CASARTELLI. 7th April 1858.

741. ANTHONY CASARTELLI, and LOUIS CASARTELLI, both of Liverpool, in the County of Lancaster, Opticians, for an invention for—"Improvements in pressure and vacuum gauges." *Provisional protection only.*

HAINES. 7th April 1858.

742. FREDERICK HAINES, Patent Agent, of Lime Street, City, London, in the County of Middlesex, for an invention for—"The application of manufactured India-rubber (as a substitute for whalebone, steel ribs, and other like articles) to various parts of ladies' dress." *Provisional protection only.*

GILBEE. 7th April 1858.

743. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"An improved machine for corking bottles."—*A communication.* *Letters Patent sealed.*

WRIGHT. 7th April 1858.

744. JAMES WRIGHT, of 10, Alfred Place, Newington Causeway, Southwark, County of Surrey, Civil Engineer, for an invention for—"Improvements in the mode of treating leather in order to render it waterproof."—*A communication.* *Provisional protection only.*

ARMITAGE. LEA. 7th April 1858.

745. WILLIAM ARMITAGE, of Farnly Iron Works, and HENRY LEA, both of Farnly, near Leeds, in the County of York, for an invention for—"Certain improvements in the manufacture of iron." *Letters Patent sealed.*

WORTHY. 7th April 1858.

746. RICHARD WORTHY, of Albert Street, Regent's Park, in the County of Middlesex, for an invention for—"An apparatus for preparing medical fomentations." *Provisional protection only.*

BAKER. 7th April 1858.

747. GEORGE WILLIAMS BAKER, of Park Farm, Woburn, in the County of Bedford, Farm Steward, for an invention for—"Improved signal apparatus to be applied to railways." *Letters Patent sealed.*

NIMMO. 7th April 1858.

748. WILLIAM NIMMO, of Manchester, Cotton Spinner and Manufacturer, for an invention for—"Improvements in the manufacture of printed woven fabrics." *Letters Patent sealed.*

FOSTER.
7th April 1858.

749. ELBRIDGE FOSTER, of the State of Connecticut, of the United States of America, for an invention for—"A new and useful or improved life-preserving berth for navigable vessels." *Complete specification; Letters Patent sealed.*

DOHERTY.
7th April 1858.

750. JAMES DOHERTY, of Edinburgh, in the County of Midlothian, North Britain, Foreman Tailor, for an invention for—"Improvements in buttons or dress fastenings." *Letters Patent sealed.*

WHITWORTH.
7th April 1858.

751. CHARLES FREDERICK WHITWORTH, of Sheffield, in the County of York, Engineer, for an invention for—"Improvements in signal apparatus for railways." *Letters Patent sealed.*

MASON.
8th April 1858.

752. STEPHEN ORATOR MASON, of the State of Connecticut, of the United States of America, for an invention for—"Certain new and useful improvements in door hinges."—*A communication from John Chauncey Mason, a resident of the State aforesaid.* *Complete specification; Letters Patent sealed.*

RICHMOND.
8th April 1858.

753. EDWARD RICHMOND, of the State of Massachusetts, of the United States of America, for an invention for—"Certain new and useful mechanism for reducing or reducing and crushing and in various other respects treating grain, sugar cane, tobacco, or other substance or substances."—*Partly a communication from Thomas Blanchard, a citizen and resident of the said United States.* *Complete specification; Letters Patent sealed.*

CARTWRIGHT.
8th April 1858.

754. JOHN CARTWRIGHT, of Shrewsbury, in the County of Salop, Agricultural Implement Maker, for an invention for—"Improved apparatus for transmitting motive-power for driving machinery." *Letters Patent sealed.*

DAVIES.
8th April 1858.

755. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in the manufacture of wads for ordnance."—*A communication from Heber Marini, of Paris, Civil Engineer.* *Letters Patent sealed.*

TAYLOR.
8th April 1858.

756. GEORGE EDWARD TAYLOR, of Oatlands, Leeds, for an invention for—"Improvements in machinery for raising the pile of cloths." *Letters Patent sealed.*

ROWLAND.
8th April 1858.

757. GEORGE ROWLAND, of Brussels, in the Kingdom of Belgium, for an invention for—"Improvements in the manufacture of artificial whalebone." *Letters Patent sealed.*

MOWBRAY.
BROADLEY.
8th April 1858.

758. FREDERICK WILLIAM MOWBRAY, of Bradford, in the County of York, Engineer, and JAMES BROADLEY, of Saltaire, in the same County, Overlooker, for an invention for—"Improvements in means or apparatus employed in weaving." *Letters Patent sealed.*

CLARK.
8th April 1858.

759. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"A burner for candles."—*A communication.* *Provisional protection only.*

GREENWOOD.
BATLEY.
DOCKRAY.
8th April 1858.

760. THOMAS GREENWOOD, JOHN BATLEY, and JACOB DOCKRAY, of Leeds, in the County of York, Machine Makers, for an invention for—"Improvements in machinery for carding, opening, straightening, and preparing to be spun tow and other fibrous materials." *Letters Patent sealed.*

ROBERTS.
DALE.
8th April 1858.

761. THOMAS ROBERTS, and JOHN DALE, of Manchester, in the County of Lancaster, Manufacturing Chemists, for an invention for—"Improvements in the production of a substitute for oil used with pigments, and in the preparation of pigments suitable thereto." *Provisional protection only.*

GREENWOOD.
BATLEY.
9th April 1858.

762. THOMAS GREENWOOD, and JOHN BATLEY, of Leeds, in the County of York, Machine Makers, for an invention for—"Improvements in machinery for heckling flax and other fibrous materials." *Letters Patent sealed.*

AGER.
9th April 1858.

763. WILSON AGER, of Rohrsburg, in the State of Pennsylvania, United States of America, for an invention for—"An improvement in rice cleaning machinery." *Letters Patent sealed.*

M'CAFFERTY.
9th April 1858.

764. ROBERT M'CAFFERTY, of Lancaster, in the State of Pennsylvania, and United States of America, for an invention for—"Preventing incrustations in steam-boilers." *Provisional protection only.*

JACKSON. 9th April 1858.

765. WILLIAM ROBINSON JACKSON, of the City of Baltimore, in the State of Maryland, and United States of America, for an invention for—"A self-acting railway break." *Letters Patent sealed.*

SMITH. 9th April 1858.

766. GEORGE SMITH, of 21, Wichampton Street, in the County of Middlesex, Charcoal Manufacturer, for an invention for—"Improvements in the manufacture of close-stools, night commodes, and water-closets." *Provisional protection only.*

BAYLEY. GREAVES. 9th April 1858.

767. HENRY BAYLEY, of Staley Bridge, in the County of Lancaster, Cotton Manufacturer, and JOHN GREAVES, of the same place, Manager, for an invention for—"Improvements applicable to certain machines for spinning and doubling fibrous substances." *Letters Patent sealed.*

BIEBUYCK. VAN LANDUYT. 9th April 1858.

768. JEAN BAPTISTE BIEBUYCK, and JOSEPH VAN LANDUYT, both of Brussels, in the Kingdom of Belgium, Merchants, for an invention for—"An improved process for separating the vinous and amylaceous principles from vegetable substances." *Provisional protection only.*

TALBOT. 9th April 1858.

769. The Honourable WILLIAM TALBOT, of the Army and Navy Club, Pall Mall, in the County of Middlesex, for an invention for—"Improvements in means or apparatus to facilitate the lowering and detaching of boats from ships or vessels, which improvements are also applicable to lowering and disengaging other bodies." *Letters Patent sealed.*

BAUERRICHTER. GOTTGETREU. 9th April 1858.

770. HENRY BAUERRICHTER, and CHARLES GUSTAVUS GOTTGETREU, of Charterhouse Square, in the Liberty of Glasshouse Yard, in the County of Middlesex, Manufacturers, for an invention for—"Improvements in printing in gold, silver, bronze, and other metal, on glass." *Letters Patent sealed.*

ORDISH. 10th April 1858.

771. ROWLAND MASON ORDISH, of No. 18, Great George Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in suspension bridges and suspended girder bridges." *Letters Patent sealed.*

LEES. SCHOFIELD. 10th April 1858.

772. ASA LEES, of the Soho Iron Works, Oldham, in the County of Lancaster, Machine Maker, and DAVID SCHOFIELD, of the same place, Manager, for an invention for—"Improvements in the construction of carriages for certain machines used in spinning and doubling." *Letters Patent sealed.*

GUYOT. 10th April 1858.

773. GERMAIN GUYOT, of Denain, in the Empire of France, Foreman in the Iron Foundry, for an invention for—"Welding broken cast-iron pieces." *Provisional protection only.*

NEUMANN. 10th April 1858.

774. ADOLPHUS NEUMANN, of London, in the County of Middlesex, for an invention for—"An improved strop for sharpening razors, knives, or other edged instruments." *Provisional protection only.*

BRUN. 10th April 1858.

775. PIERRE BRUN, of No. 1, Rue de Grenelle St. Honoré, Paris, in the Empire of France, for an invention for—"The application of an improved blowing fan to steady or portable forges, with or without reverberatory furnaces, as well as to ventilation in general."—*A communication from François Maniguet, of Lyons.* *Letters Patent sealed and specification filed, by order.*

OXLEY. 10th April 1858.

776. JOHN OXLEY, of Beverley, Yorkshire, and Moorgate Street, Carriage Builder, for an invention for—"Certain improvements in the doors and sashes of carriages." *Letters Patent sealed.*

PARMELEE. 10th April 1858.

777. SPENCER THOMAS PARMELEE, of Edinburgh, in the County of Midlothian, North Britain, for an invention for—"The manufacture of improved belting for machinery or other purposes." *Letters Patent sealed.*

LECORNU. 10th April 1858.

778. FRANÇOIS AUGUSTE LECORNU, of Paris (France), Mechanician, for an invention for—"Improvements in drawing and levelling instruments." *Letters Patent sealed.*

ARMSTRONG. 10th April 1858.

779. WILLIAM GEORGE ARMSTRONG, of Newcastle-upon-Tyne, in the County of Northumberland, Civil Engineer, for an invention for—"Improvements in the means of firing or igniting explosive projectiles." *Letters Patent sealed.*

POUNCY. 10th April 1858.

780. JOHN POUNCY, Photographer, of High West Street, Dorchester, in the County of Dorset, for an invention for—"Improvements in the production of photographic pictures." *Provisional protection only.*

M'CRAE. 10th April 1858.

781. DANIEL M'CRAE, of Greenock, in the County of Renfrew, North Britain, Grease Manufacturer, for an invention for—"Improvements in preserving ships' bottoms and other exposed surfaces from fouling and injury or decay."
Letters Patent sealed.

ROWETT. 10th April 1858.

782. WILLIAM ROWETT, of Netherfield Road, Liverpool, in the County of Lancaster, for an invention for—"Improvements in the construction of electric telegraph cables or ropes." *Letters Patent sealed.*

MANBRÉ. 10th April 1858.

783. ALEXANDER MANBRÉ, of 10, Rathbone Place, Oxford Street, London, for an invention for—"The manufacture of a colouring matter for colouring spirits, beverages, and other liquids, from the sugar of potatoes known as glucose and 'syrup de fecule.'" *Letters Patent sealed.*

RAE. 10th April 1858.

784. JAMES RAE, of Blackwall, in the County of Middlesex, Engineer and Ship Builder, for an invention for—"Improvements in the construction of iron ships."
Letters Patent sealed.

THIBAULT. 10th April 1858.

785. AMABLE CYPRIEN THIBAULT, of Paris, in the Empire of France, Painter, for an invention for—"Improvements in the Manufacture of paper hangings and in the machinery employed therein." *Letters Patent sealed.*

BAILEY. OLDFIELD. ODDY. 12th April 1858.

786. JAMES BAILEY, EDWARD OLDFIELD, and SAMUEL ODDY, all of Salford, in the County of Lancaster, Machine Makers, for an invention for—"Improvements in machinery for driving grindstones and glazers." *Letters Patent sealed.*

BICKERTON. 12th April 1858.

787. SAMUEL BICKERTON, of Oldham, in the County of Lancaster, for an invention for—"A thermo-pneumatic lubricator for oiling shafts, axles, machinery, &c."
Letters Patent sealed.

MICHEL. 12th April 1858.

788. PAUL MICHEL, of Paris, in the French Empire, Dyer, for an invention for—"An improved neckcloth or tie, means of connecting ties to collars, and an improved collar."—*A communication from Charles Alfred Jordery, of Paris.*
Provisional protection only.

KAY. 12th April 1858.

789. THOMAS KAY, of Oxenhope, near Keighley, in the County of York, Manager, for an invention for—"An improved method of producing or obtaining heat suitable for the singeing of yarns and textile fabrics, which heat is also applicable to other heating purposes." *Letters Patent sealed.*

CLARK. 12th April 1858.

790. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in the pattern surfaces or cards of jacquard apparatus."—*A communication.* *Provisional protection only.*

RATEL. 12th April 1858.

791. PIERRE RATEL, of Paris, in the Empire of France, Gilder on Metals, for an invention for—"A new or improved machine for depositing grain and manure."
Letters Patent sealed.

WHITTLES. SCHOFIELD. LEACH. LORD. 13th April 1858.

792. HENRY WHITTLES, Engineer, Rochdale, JOSEPH SCHOFIELD, Manufacturer, Littleborough, EDMUND LEACH, Manager, Littleborough, JAMES LORD, Solicitor, Rochdale, all in the County of Lancaster, for an invention for—"Improvements in certain parts of steam-engines." *Letters Patent sealed.*

SPILLER. 13th April 1858.

793. THOMAS SPILLER, Esquire, of 5, Red Lion Square, in the County of Middlesex, in the Parish of St. George the Martyr, for an invention for—"Exhibiting slides in the steroscope and preserving them from injury, to enable each slide to be conveyed to the point of view and then after use deposit them each in its place in the box, without handling or exposing the slides to the chance of being soiled, keeping them always under cover in safety—a box 18 in. by 8 in. square will hold and exhibit near 1,000 slides." *Provisional protection only.*

DEAN. 13th April 1858.

794. GEORGE ALFRED HENRY DEAN, of 11, Ludgate Hill, in the City of London, for an invention for—"An improvement in stereoscope's slides."
Provisional protection only.

JOPLING. 13th April 1858.

795. THOMAS TAYLORSON JOPLING, of Dunning Street, Bishopwearmouth, Iron Founder, for an invention for—"Improvements in water-closets."
Letters Patent sealed.

BROOMAN.
13th April 1858.

796. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in cranes or apparatuses for raising and lowering weights."— *A communication from Jean Baptiste Borde.* *Letters Patent sealed.*

SCHÄFER.
SCHÄFER.
13th April 1858.

797. PHILIPP SCHÄFER, and FREDERICK SCHÄFER, of Brewer Street, in the County of Middlesex, Manufacturers of Travelling Bags, for an invention for—"Improvements in fastenings for travelling bags, portmanteaus, and other like articles." *Letters Patent sealed.*

YARDIN.
13th April 1858.

798. PETER ALLEMBERT YARDIN, of Moorgate Street, in the City of London, Truss Manufacturer, for an invention for—"Improvements in trusses." *Provisional protection only.*

AYSHFORD.
13th April 1858.

799. THOMAS BLAKE AYSHFORD, of No. 1, Britannia Road, Walham Green, Fulham, in the County of Middlesex, for an invention for—"Certain improvements in the construction of carriages called omnibuses." *Provisional protection only.*

NEWTON.
13th April 1858.

800. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved means for operating railway brakes."—*A communication.* *Letters Patent sealed.*

ARMSTRONG.
GALLOWAY.
14th April 1858.

801. ROBERT ARMSTRONG, of North Woolwich, in the County of Essex, Civil Engineer, and JOHN GALLOWAY, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in apparatus and furnaces for heating, welding, or melting metals, parts of which improvements are applicable to other furnaces." *Provisional protection only.*

PYE.
SMITH.
CROASDALE.
14th April 1858.

802. GEORGE PYE, of Blackburn, ROBERT SMITH, of Longridge, near Preston, and BENJAMIN CROASDALE, of Whitton, near Blackburn, all in the County of Lancaster, for an invention for—"Improvements in looms." *Letters Patent sealed.*

HOLMES.
HOLLINSHEAD.
14th April 1858.

803. WILLIAM CARTWRIGHT HOLMES, and WILLIAM HOLLINSHEAD, of Huddersfield, in the County of York, Engineers, for an invention for—"Improvements in the manufacture of metal castings." *Letters Patent sealed.*

MENNONS.
14th April 1858.

804. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, and 4, South Street, Finsbury, London, E.C., for an invention for—"Improvements in obtaining motive-power, and in apparatus connected therewith."—*A communication.* *Provisional protection only.*

MENNONS.
14th April 1858.

805. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, E.C., for an invention for—"Certain improvements in voltaic batteries."—*A communication.* *Letters Patent sealed.*

GORHAM.
14th April 1858.

806. JOHN GORHAM, of Tunbridge, in the County of Kent, Surgeon, for an invention for—"Improvements in optical instruments, by the revolution of which various designs or patterns may be produced to the eye." *Letters Patent sealed.*

OSBORNE.
BELL.
14th April 1858.

807. THOMAS OSBORNE, and ROBERT ALEXANDER BELL, both of Derby, in the County of Derbyshire, Engineers, for an invention for—"An apparatus for suddenly detaching railway carriages or waggons." *Provisional protection only.*

GRAY.
14th April 1858.

808. JOHN GRAY, of Uddingston, in the County of Lancaster, North Britain, Agricultural Engineer, for an invention for—"Improvements in ploughs." *Letters Patent sealed.*

MATHER.
CHARLTON.
14th April 1858.

809. COLIN MATHER, of Salford Iron Works, Salford, in the County of Lancaster, Machinist, and HENRY CHARLTON, of Blackfriars Street, Manchester, in the County of Lancaster, Callenderer and Finisher, for an invention for—"Improvements in apparatus for drying cotton, linen, wool, yarn, seed, and other articles." *Letters Patent sealed.*

GREEN.
14th April 1858.

810. EDWARD GREEN, of Wakefield, in the County of York, Engineer, for an invention for—"Improvements in implements for harrowing, pulverizing, cleaning, and breaking up land." *Letters Patent sealed.*

JOHNSON.
14th April 1858.

811. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in sewing-machines."—*A communication from Samuel Comfort, junior, of Morrisville, Pennsylvania, in the United States of America.* *Letters Patent sealed.*

KNIGHT.
14th April 1858.

812. JOHN KNIGHT, of Woodhouse Mills, near Rochdale, in the County of Lancaster, Bleacher and Finisher, for an invention for—"Improvements in machinery or apparatus for scouring, washing, and cleansing textile fabrics." *Letters Patent sealed.*

NEWTON.
14th April 1858.

813. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in rotary pumps."—*A communication.* *Letters Patent sealed.*

DAVIES.
JONES.
JONES.
15th April 1858.

814. CHARLES DAVIES, of Duffryn, WILLIAM JONES, of Caerleon, and JOHN JONES, of Maindee, near Newport, all in the County of Monmouth, for an invention for—"An improved method of finishing tinned terne or lead plates, without the use of grease." *Provisional protection only.*

PRESTON.
M°GREGOR.
15th April 1858.

815. FRANCIS PRESTON, of the City of Manchester, Mechanical Engineer, and WILLIAM M°GREGOR, of the same place, Mechanic, for an invention for—"Improvements in machinery for forging and cutting files." *Letters Patent sealed.*

THOMAS.
15th April 1858.

816. FREDERICK SAMSON THOMAS, of Junction Street, Kentish Town, in the County of Middlesex, Gentleman, for an invention for—"An improved mode of propelling carriages upon railways." *Provisional protection only.*

COWELL.
15th April 1858.

817. LAMBERT COWELL, of Adelphi, in the County of Middlesex, Gentleman, for an invention for—"An instrument or nippers for cutting the wired, corded, or like fastenings of corked bottles." *Letters Patent sealed.*

MEYERS.
15th April 1858.

818. JOHN MEYERS, of Westmoreland Place, City Road, in the County of Middlesex, Furrier, for an invention for—"Improvements in the treatment of dark fur skins in order to render them more highly ornamental." *Letters Patent sealed.*

SPENCE.
15th April 1858.

819. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the pedestals and journal boxes of railway carriages."—*A communication from Jacob Conradt Geisendorff, of Cincinnati, Ohio, United States.* *Letters Patent sealed.*

NEWTON.
15th April 1858.

820. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in boots, shoes, and other coverings for the feet."—*A communication.* *Letters Patent sealed.*

HARRIS.
SUMMERSON.
15th April 1858.

821. JOHN HARRIS, of Woodside, near Darlington, Civil Engineer, and THOMAS SUMMERSON, of Haughton-le-Skerne, near Darlington, aforesaid, Iron Founder, for an invention for—"An improvement in railway chairs." *Letters Patent sealed.*

DURANT.
15th April 1858.

822. ANGUISH HONOUR AUGUSTUS DURANT, Esquire, of the Conservative Club, St. James's, in the County of Middlesex, for an invention for—"An improved apparatus for husking and winnowing castor (and other) seeds and berries." *Letters Patent sealed.*

BOOT.
16th April 1858.

823. ALFRED JAMES BOOT, of the City of Manchester, in the County of Lancaster, Mark Maker, for an invention for—"Improvements in machinery or apparatus for making labels." *Provisional protection only.*

HODGES.
16th April 1858.

824. JOHN GARDINE HODGES, of the City of Manchester, in the County of Lancaster, Merchant and Manufacturer, for an invention for—"Improvements in machinery or apparatus for embroidering." *Provisional protection only.*

BROTHERHOOD.
16th April 1858.

825. PETER BROTHERHOOD, of Chippenham, in the County of Wiltshire, Engineer, for an invention for—"Improvements in the construction of locomotive and other steam-boilers." *Letters Patent sealed*

BROWN.
16th April 1858.

826. GEORGE GIBSON BROWN, of 25, Wickham Terrace, New Cross, Deptford, for an invention for—"Improvements in ships' binnacles." *Letters Patent sealed.*

WALKER. 16th April 1858.

827. GEORGE WALKER, of Edgbaston, near Birmingham, in the County of Warwick, for an invention for—"An improved union apparatus for cleaning and polishing knives and forks, and boots and shoes, and which said apparatus is also applicable for sharpening knives, and sharpening or cleaning other articles."—*Letters Patent sealed.*

PRICE. 16th April 1858.

828. ASTLEY PASTON PRICE, of Margate, in the County of Kent, Chemist, for an invention for—"Improvements in the treatment of certain zinc ores and compounds of zinc, and in the manufacture of zinc and oxide of zinc." *Letters Patent sealed.*

PRICE. 16th April 1858.

829. ASTLEY PASTON PRICE, of Margate, in the County of Kent, Chemist, for an invention for—"Improvements in obtaining cadmium and certain compounds thereof." *Letters Patent sealed.*

PRICE. 16th April 1858.

830. ASTLEY PASTON PRICE, of Margate, in the County of Kent, Chemist, for an invention for—"Improvements in the treatment and smelting of certain argentiferous or silver ores." *Letters Patent sealed.*

JOHNSON. 16th April 1858.

831. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in preparing printing-surfaces."—*A communication from John M^c^Elheran, of Brooklyn, in the County of King, and State of New York, United States of America.* *Letters Patent sealed.*

LUIS. 17th April 1858.

832. JOZÉ LUIS, of No. 1B, Welbeck Street, Cavendish Square, in the County of Middlesex, for an invention for—"A new system of window-frames for railway carriages."—*A communication.* *Letters Patent sealed.*

SANS. 17th April 1858.

833. EUGENE FRANÇOIS SANS, Engineer, residing at Epernay (Marne), in the Empire of France, for an invention for—"An apparatus serving to mesure upon a large scale the smallest pressions of any fluid matters." *Letters Patent sealed.*

GRASSAY. 17th April 1858.

834. JACQUES GRASSAY, residing at Ivry, Rue du Chevaleret, 7, Paris (Seine), in the Empire of France, for an invention for—"Hangings and all sorts of papers made waterproof by a new process." *Letters Patent sealed.*

LUTÉREAU. 17th April 1858.

835. ADOLPHE ANDRÉ LUTÉREAU, residing at Paris, Rue de la Goutte d'Or, 26, Chapelle St. Denis, Seine, in the Empire of France, Engraver, for—"An invention for the purpose by machinery to polish, wholy or partly, leather, paper hanging, and all other febril stuff, that is to say, that a piece can be polished in several parts leaving spaces unpolished." *Letters Patent sealed.*

GILBERT. 17th April 1858.

836. FRANÇOIS CHARLES GILBERT, residing at Paris (Petite Villette), Rue du Dépotoir, No. 44, Seine, in the Empire of France, for an invention for—"A disinfecting composition to purify water-closets and all insalubrious places." *Letters Patent sealed.*

CHALMERS. SWALLOW. 17th April 1858.

837. DAVID CHALMERS, of the City of Manchester, in the County of Lancaster, Machinist, and JOHN THEOPHILUS SWALLOW, of the same place, Cotton Waste Dealer, for an invention for—"Improvements in looms." *Letters Patent sealed.*

BANCROFT. 17th April 1858.

838. GEORGE WOOD BANCROFT, of Bow Road, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of certain parts of railway carriages to ensure safety in travelling." *Provisional protection only.*

CHURN. 17th April 1858.

839. JOHN RICHARD CHURN, the younger, of Birmingham, in the County of Warwick, Auctioneer and Surveyor, for an invention for—"A new or improved chimney pot or top." *Letters Patent sealed.*

CARRON. 17th April 1858.

840. WILLIAM CARRON, of Birmingham, in the County of Warwick, Machinist, for an invention for—"Improvements in constructing moulds for casting nails, spikes, and bolts." *Letters Patent sealed.*

MENNONS. 17th April 1858.

841. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"A certain medicinal compound for the treatment of epilepsy."—*A communication.* *Complete specification; Letters Patent sealed.*

MENNONS. 17th April 1858.

842. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved system of portable tents for military and other purposes."—*A communication.* *Complete specification; Letters Patent sealed.*

MENNONS. 17th April 1858.

843. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Paten Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved substitute for the pulverised cotton and wool employed in the manufacture of felted tissues, papers, and other fabrics."—*A communication.*
Complete specification; Letters Patent sealed.

HAWKER. 17th April 1858.

844. CHARLES HAWKER, of Fishbourne, in the Parish of Binstead, in the Isle of Wight, in the County of Southampton, Salt Manufacturer, for an invention for —"An improved manufacture of cartridge for fire-arms."—*Partly a communication from Thomas Parry Hawker.* *Letters Patent sealed.*

JOHNSON. 17th April 1858.

845. JOHN HENRY JOHNSON, of, 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in sewing-machines."—*A communication.* *Letters Patent sealed.*

LUCK. 17th April 1858.

846. THOMAS LUCK, of Spalding Common, in the County of Lincoln, Agricultural Implement Maker, for an invention for—"Improvements in machinery for raking and seeding land." *Letters Patent sealed.*

LATHAM. 17th April 1858.

847. WILLIAM LATHAM, of Russell Court, Drury Lane, in the County of Middlesex, for an invention for—"Improvements in the manufacture of hats and caps." *Letters Patent sealed.*

JENNINGS. 17th April 1858.

848. JOSIAH GEORGE JENNINGS, of Holland Street, Blackfriars, in the County of Surrey, Engineer, for an invention for—"Improvements in the construction of sewers, culverts, arches, and other similar structures, and in the manufacture of blocks of clay, pottery, and other similar wares suitable to be used in such constructions." *Letters Patent sealed.*

WESTHEAD. BAINES. 19th April 1858.

849. MARCUS BROWN WESTHEAD, of Manchester, in the County of Lancaster, Merchant, and HUGH BAINES, of the same place, Gentleman, for an invention for —"Certain improvements in machinery or apparatus for the prevention of accidents applicable to hoisting and other lifting machines employed in connection with railways or other places where heavy bodies require to be moved from one level to another." *Provisional protection only.*

DRAKE. 19th April 1858.

850. JOHN DRAKE, Junior, of Huddersfield, in the County of York, Mechanic, for an invention for—"Improvements in sewing machines."
Provisional protection only.

RIDGWAY. 19th April 1858.

851. WILLIAM H. RIDGWAY, of East View Place, Hanley, Staffordshire, for an invention for—"Improved apparatus for opening the covers of jugs."
Letters Patent sealed.

BULLOUGH. HARRISON. 19th April 1858.

852. WILLIAM BULLOUGH, and JOSEPH HARRISON, both of Blackburn, in the County of Lancaster, Machine Makers, for an invention for—"Certain improvements in looms for weaving, and in machinery for winding the cord used in the manufacture of weavers' healds." *Letters Patent sealed.*

HOWORTH. 19th April 1858.

853. JAMES HOWORTH, of Farnworth, in the County of Lancaster, Tin Plate Worker, for an invention for—"Improved apparatus to facilitate the discharge of smoke and prevent its return, which said apparatus is also applicable for the ventilation of buildings." *Provisional protection only.*

EDWARDS. 19th April 1858.

854. HENRY EDWARDS, of Dalston, in the County of Middlesex, Gentleman, for an invention for—"Improvements in trowsers or other similar articles of wearing apparel." *Letters Patent sealed.*

HENRY. 19th April 1858.

855. MICHAEL HENRY, of 77, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture of candles and in preparing materials for the same, and in apparatus employed therein."—*A communication from P. A. de Gemini.* *Letters Patent sealed*

ROWAN. HORTON. 19th April 1858.

856. MARTIN ROWAN, of Glasgow, in the County of Lanark, Engineer, and THOMAS ROGERS HORTON, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in steam-engines and boilers."
Letters Patent sealed and specification filed, by order

CALVER.
19th April 1858.

857. EDWARD KILLWICK CALVER, of Sunderland, Master in the Royal Navy, and Admiralty Surveyor, for an invention for—"Improvements in the formation of harbours of refuge, which improvements are also applicable as a wave screen in other situations." *Letters Patent sealed.*

ARMSTRONG.
19th April 1858.

858. JOHN ARMSTRONG, of 15, Nelson Street, Sunderland, for an invention for—"Improvements in apparatus used for preserving timber." *Letters Patent sealed.*

CLARK.
19th April 1858.

859. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"A new instrument for taking the altitude of the sun, to be termed the Helypsometer."—*A communication.* *Letters Patent sealed.*

DEROGY.
20th April 1858.

860. EUGENE DEROGY, of No. 33, Quai de l'Horloge, Paris, in the Empire of France, Manufacturing Optician, for an invention for—"Improvements in instruments and apparatus applicable to photographic purposes." *Letters Patent sealed.*

WHITELEY.
20th April 1858.

861. JOHN WHITELEY, of Stapleford, in the County of Nottingham, Lace Manufacturer, for an invention for—"An improvement in machinery for the manufacture of looped fabrics." *Letters Patent sealed.*

CLARK.
20th April 1858.

862. WILLIAM STETTINIUS CLARK, of the Atlas Works, Upper Park Place, Dorset Square, in the County of Middlesex, for an invention for—"A nautical safe and life preserver."—*A communication from F. C. Smith of the City of Wheeling, United States of America.* *Provisional protection only.*

CLARK.
20th April 1858.

863. WILLIAM STETTINIUS CLARK, of the Atlas Works, Upper Park Place, Dorset Square, in the County of Middlesex, for an invention for—"An improved cultivator tooth for agricultural purposes."—*A communication from Peter Hanney, of Washington City, America.* *Provisional protection only.*

PEACOCK.
20th April 1858.

864. RALPH PEACOCK, of New Holland, in the County of Lincoln, Engineer, for an invention for—"Improvements in apparatus for preventing smoke in furnaces, and in effecting a more perfect combustion of fuel." *Letters Patent sealed.*

FINLAYSON.
20th April 1858.

865. GEORGE FINLAYSON, of Gighty Burn, in the County of Forfar, North Britain, Millwright, for an invention for—"Improvements in machinery or apparatus for sowing or depositing seeds in land." *Letters Patent sealed.*

SMITH.
20th April 1858.

866. JOHN BAPTIST SMITH, of Hockley, near Birmingham, in the County of Warwick, Agent, for an invention for—"Improvements in adjusting the position of pendent and other lamps." *Letters Patent sealed.*

MOORE.
20th April 1858.

867. DANIEL MOORE, of Brooklyn, in the County of Kings, and State of New York, United States of America, for an invention for—"An improvement in fire tongs." *Letters Patent sealed.*

LEADBETTER.
TERRY.
20th April 1858.

868. JAMES LEADBETTER, of Leeds, in the County of York, Brazier, and GEORGE TERRY, of the same place, Ironmonger, for an invention for—"Improvements in the manufacture of metallic trunks and other receptacles for property." *Provisional protection only.*

RAWSTORNE.
20th April 1858.

869. JAMES RAWSTORNE, of Abingdon Villas, Kensington, in the County of Middlesex, a Captain in the Royal Navy, for an invention for—"Improved means for stopping or retarding the progress of ships or vessels." *Provisional protection only.*

ADKINS.
BUSS.
21st April 1858.

870. JOHN ADKINS, of Church Street, Islington, in the County of Middlesex, Gentleman, and THOMAS ODEMCY LEBERT BUSS, of Hatton Garden, in the same County, Specific Gravity Instrument Maker, for an invention for—"Certain improvements in ships' compasses." *Letters Patent sealed.*

OGILVIE.
RICHARDSON.
21st April 1858.

871. ALEXANDER OGILVIE, Machinist, of Denmark Street, Soho Square, and JOHN RICHARDSON, Drying Machine Manufacturer, of No. 449, New Oxford Street, both in the County of Middlesex, for an invention for—"Improvements in apparatus for working steam-engines." *Provisional protection only.*

SHRIMPTON.
21st April 1858.

872. ALFRED SHRIMPTON, of No. 112, Stanley Street, Pimlico, in the County of Middlesex, for an invention for—"An improvement or improvements in the manufacture of metallic bedsteads and other articles for sitting, lying, or reclining upon." *Provisional protection only.*

Ross. 21st April 1858.	**873.** Maria Ross, of Gallowtree Gate, Leicester, for an invention for—"Improvements in the manufacture of frames for looking-glasses, pictures, and other representations." *Letters Patent sealed.*
Copcutt. 21st April 1858.	**874.** James Copcutt, of 50, St. John Street, Clerkenwell, in the County of Middlesex, for an invention for—"Improvements in the manufacture of gas and in the apparatus employed therein." *Letters Patent sealed.*
Talbot. 21st April 1858.	**875.** William Henry Fox Talbot, of Lacock Abbey, in the County of Wilts, Esquire, for an invention for—"Improvements in the art of engraving." *Letters Patent sealed.*
Horsey. 21st April 1858.	**876.** James Horsey, of Greek Street, in the County of Middlesex, India-rubber Manufacturer, for an invention for—"Improvements in India-rubber and other pouches, and in elastic band or ring fastenings for pouches." *Letters Patent sealed.*
Green. Green. 21st April 1858.	**877.** Edward Green, and Edward Green, the younger, both of Wakefield, in the County of York, Engineers, for an invention for—"Improvements in apparatuses for generating and superheating steam and for heating." *Letters Patent sealed.*
Lane. 21st April 1858.	**878.** Joseph James Lane, of Newgate Street, in the City of London, Engineer, for an invention for—"An improved arrangement of punches and dies in eyelet machines." *Provisional protection only.*
Parker. 21st April 1858.	**879.** Benjamin Parker, of Clapham, and Millwall, Poplar, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*
Bishop. 22nd April 1858.	**880.** William Bishop, of Boston, in the County of Lincolnshire, Gentleman, for an invention for—"Improvements in machinery or apparatus for ticketing or labeling spools, bobbins, or reels, for adjusting the size thereof, for sampling patterns, for printing labels or tickets, affixing postage or other stamps or labels, for cutting their edges, and dividing them into given quantities and sizes." *Letters Patent sealed.*
Hutchison. 22nd April 1858.	**881.** Thomas Hutchison, of the firm of Hutchison and Kerr, of Paisley, in the County of Renfrew, North Britain, Shawl Manufacturers, for an invention for—"Improvements in shawls." *Provisional protection only.*
Clegg. 22nd April 1858.	**882.** Samuel Clegg, of Dover Cottage, Putney, in the County of Surrey, for an invention for—"Improvements in gas meters." *Letters Patent sealed.*
Chatterton. 22nd April 1858.	**883.** John Chatterton, of 7, Devonshire Street, Islington, in the County of Middlesex, for an invention for—"Improvements in combining and coating insulated metal conductors for electric telegraphs." *Letters Patent sealed.*
Gilmour. 22nd April 1858.	**884.** George Gilmour, of the State of Massachusetts, of the United States of America, for an invention for—"A telegraph cable or rope shackle." *Letters Patent sealed.*
Smith. 22nd April 1858.	**885.** George Smith, of Morriston, near Swansea, in the County of Glamorgan, Manager of Spelter Works, for an invention for—"Improvements in the manufacture of zinc."—*A communication.* *Letters Patent sealed.*
Gilmour. 22nd April 1858.	**886.** George Gilmour, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful or improved messenger shackle block." *Complete specification; Letters Patent sealed.*
Maugey. 22nd April 1858.	**887.** Pierre Maugey, of Paris, in the Empire of France, Optician, for an invention for—"Improvements in diaphragms or optical instruments."—*Partly a communication.* *Letters Patent sealed.*
De Saegher. 22nd April 1858.	**888.** Henry Andrew de Saegher, of Brussels, in the Kingdom of Belgium, Gentleman, for an invention for—"A composition proper to prevent the incrustation of steam-boilers." *Letters Patent sealed.*
Beck. 22nd April 1858.	**889.** William Beck, of New York, in the United States of America, Manufacturer, for an invention for—"Improved machinery for weaving fringes and other fabrics."—*A communication.* *Provisional protection only.*
Aimont. 22nd April 1858.	**890.** Pierre Ernest Aimont, of Paris, in the French Empire, Civil Engineer, for an invention for—"Improvements in railway indicating and signalling apparatuses." *Letters Patent sealed.*
Harrington. 22nd April 1858.	**891.** Timothy Harrington, of Dover, in the County of Kent, Engineer, for an invention for—"An improved method of ventilating the hold and other parts of ships." *Provisional protection only.*

PADDON. 22nd April 1858.

892. JOHN BIRCH PADDON, of Gray's Inn Road, in the County of Middlesex, Engineer, for an invention for—"An improvement in gas regulators." *Letters Patent sealed.*

STOCKS. KAYE. 22nd April 1858.

893. JAMES STOCKS, of Berry Brow, in the County of York, Platelayer, and CHARLES KAYE, of Lockwood, in the same County, Wagon Builder, for an invention for—"Improvements in apparatuses for coupling and uncoupling wagons and carriages on railways." *Provisional protection only.*

DONKIN. 22nd April 1858.

894. THOMAS DONKIN, of the firm of Bryan Donkin & Company, of Bermondsey, in the County of Surrey, Engineer, for an invention for—"Improvements in apparatus employed in the manufacture of paper, applicable also to controlling the motion of travelling webs and fabrics."—*A communication from Gabriel Planche.* *Letters Patent sealed.*

GREENSHIELDS. 23rd April 1858.

895. THOMAS GREENSHIELDS, of No. 11, Little Titchfield Street, London, for an invention for—"Improvements in purifying gas produced from coal and obtaining ammoniacal and other alkaline salts." *Letters Patent sealed.*

RYDER. 23rd April 1858.

896. WILLIAM RYDER, of Bolton-le-Moors, in the County of Lancaster, Spindle and Flyer Maker and Iron Founder, for an invention for—"Improvements in preparing moulds and moulding-boxes for casting metal or other materials." *Provisional protection only.*

ATKINSON. 23rd April 1858.

897. CHARLES ATKINSON, of Sheffield, in the County of York, Manufacturer, for an invention for—"A certain improvement in venetian blinds." *Letters Patent sealed.*

SILLEM. 23rd April 1858.

898. HERMAN JAMES SILLEM, of the firm of Fawcett, Preston, & C° of Liverpool, in the County of Lancaster, Engineers, for an invention for—"Improvements in the machinery for the manufacture of sugar." *Letters Patent sealed.*

PIRSSON. 23rd April 1858.

899. JOSEPH POOLE PIRSSON, of the City of New York, United States of America, Civil Engineer, for an invention for—"Improvements in the condensers of steam-engines." *Letters Patent sealed.*

FOSTER. 23rd April 1858.

900. WILLIAM FOSTER, of Black Dike Mills, near Bradford, in the County of York, Spinner and Manufacturer, for an invention for—"Improvements in multitubular and other boilers, for the prevention of smoke and economizing fuel." *Letters Patent sealed.*

JENKIN. 23rd April 1858.

901. ALFRED JENKIN, of Carrick Mines, in the County of Dublin, Mining Engineer, for an invention for—"Improvements in furnaces for the reduction and calcination of lead, tin, and copper ores." *Letters Patent sealed.*

YORK. 23rd April 1858.

902. JOHN OLIVER YORK, of Paris, Engineer, for an invention for—"Improvements in obtaining power when bisulphuret of carbon is used."—*A communication from Bernard Hughes, of Rochester, New York, America.* *Letters Patent sealed.*

LUNGLEY. 23rd April 1858.

903. CHARLES LUNGLEY, of Deptford Green Dockyard, Ship Builder, for an invention for—"Improvements in the construction of portable ships and boats and their appurtenances." *Letters Patent sealed.*

STOCKER. 24th April 1858.

904. ALEXANDER SOUTHWOOD STOCKER, of No. 18, Wimpole Street, Cavendish Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements appertaining to articles to be affixed to boots and shoes and to the feet of animals, and in the machinery and means employed for producing the same." *Letters Patent sealed.*

MAITRE. 24th April 1858.

905. JOSEPH MAITRE, residing at Thieffrain (Aube), in the Empire of France, for an invention for—"Proper apparatus for washing iron mineral." *Letters Patent sealed.*

LUIS. 24th April 1858.

906. JOZÉ LUIS, of No. 1B, Welbeck Street, Cavendish Square, in the County of Middlesex, for an invention for—"A moderator piston."—*A communication.* *Provisional protection only.*

BODMER. 24th April 1858.

907. RUDOLPH BODMER, of 2, Thavies Inn, Holborn, in the City of London, for an invention for—"An improved apparatus for removing sand and similar loose material from docks, rivers, and waterways."—*A communication from John Johnson, of New York, in the United States of America, Engineer.* *Letters Patent sealed.*

LILLYWHITE. WISDEN. 24th April 1858.

908. FREDERICK LILLYWHITE, and JOHN WISDEN, both of Coventry Street, in the County of Middlesex, Cricketing Outfitters, for an invention for—"An improved apparatus for projecting cricket balls or other similar articles."
Letters Patent sealed.

CLARK. 24th April 1858.

909. WILLIAM ALANSON CLARK, of Bethany, in the County of Newhaven, and State of Connecticutt, United States of America, for an invention for—"Improvements in expansive bits." *Letters Patent sealed.*

HORTON. 24th April 1858.

910. JOHN HORTON, of Ashburton, in the County of Devon, Smith, for an invention for—"An improved construction of horse hoe." *Letters Patent sealed.*

LAWSON. 24th April 1858.

911. JOHN LAWSON, of Leeds, Machine Maker, for an invention for—"Improvements in machinery used in spinning flax and other fibrous substances."—*Partly a communication.* *Provisional protection only.*

NEWTON. 26th April 1858.

912. LEOPOLD NEWTON, of Oldham, in the County of Lancaster, Cotton Spinner for an invention for—"Improvements in cop tubes used in spinning machinery."
Provisional protection only.

BURLEIGH. DANCHELL. 26th April 1858.

913. BENJAMIN BURLEIGH, and FREDERIC LUDWIG DANCHELL, of Great George Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in filters." *Provisional protection only.*

FISHER. 26th April 1858.

914. JOHN MARTYN FISHER, of Taunton, in the County of Somerset, Manufacturing and Furnishing Ironmonger, for an invention for—"Improvements in chimney tops or cowls." *Letters Patent sealed.*

BRAIDWOOD. 26th April 1858.

915. JOHN BRAIDWOOD, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in steam-boilers and furnaces."
Letters Patent sealed.

WESTERBY. 26th April 1858.

916. JOSEPH WESTERBY, of Huddersfield, in the County of York, Engineer, for an invention for—"Improved apparatus for lubricating pistons."
Letters Patent sealed.

JONES. 26th April 1858.

917. WRIGHT JONES, of Pendleton, in the County of Lancaster, Brass and Iron Founder, for an invention for—"Improved machinery for ringing bells."
Letters Patent sealed.

MARTIN. 26th April 1858.

918. WILLIAM ARENA MARTIN, 16, Powis Street, Woolwich, in the County of Kent, Engineer, for an invention for—"An improved shoe scraper."
Provisional protection only.

EMERY. 26th April 1858.

919. AARON FAULKNER EMERY, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful or improved machine for sewing cloth or other material."—*A communication from William M. Horn, a resident of the said State of Massachusetts.*
Complete specification; Letters Patent sealed.

SEAMAN. 26th April 1858.

920. JOSEPH SEAMAN, of the Britannia Iron Works, Bedford, in the County of Bedford, for an invention for—"Improvements in machinery or apparatus for effecting the working or cultivation of land, and in the means of driving the same."
Letters Patent sealed.

FOSTER. 26th April 1858.

921. WILLIAM FOSTER, of Lower Tower Street, Birmingham, in the County of Warwick, Cock Founder, for an invention for—"An improved vent tap."
Letters Patent sealed.

LEE. 26th April 1858.

922. EDWIN EVETTS LEE, Die Sinker, Stamper, and Piercer, of Birmingham, in the County of Warwick, for an invention for—"Certain improved modes of applying vitrifiable materials for the ornamentation of metal buttons, clasps, and other articles of dress, and which said improvements are also applicable to the ornamenting of gilt jewellery, book clasps, and mounts, and also parts of lamp stands, chandeliers, and other such like articles made in dies, moulded, or formed in any other way." *Letters Patent sealed.*

DOBSON. 26th April 1858.

923. THOMAS DOBSON, of Birmingham, in the County of Warwick, Engine Smith, for an invention for—"Improvements in machinery or apparatus for forging iron." *Provisional protection only.*

NEWTON. 26th April 1858.

924. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in covering roofs and other parts of buildings with slate or other materials."—*A communication.* *Provisional protection only.*

HUNT. POCHIN. 27th April 1858.

925. EDWARD HUNT, and HENRY DAVIS POCHIN, both of Salford, in the County of Lancaster, Chemists, for an invention for—"Improvements in the treatment and application of resins and resinous substances." *Letters Patent sealed.*

WHITE. 27th April 1858.

926. EDMUND WHITE, of Bath, in the County of Somerset, Outfitter, for an invention for—"Improvements in facilitating reference by means of indexes." *Letters Patent sealed.*

SIMONS. 27th April 1858.

927. EDWARD SIMONS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in cornices and cornice poles for window and other curtains." *Provisional protection only.*

VASSEROT. 27th April 1858.

928. CHARLES FREDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"Improvements in the arrangement and construction of blast engines, pneumatic machines, and pumping engines generally."—*A communication from Messrs H. Thirion & Son, of Mirecourt, Vosges, in the Empire of France.* *Letters Patent sealed.*

FRASER. 27th April 1858.

929. JOHN FRASER, Chemist, residing at Blue Vale Chemical Works, Gallowgate, Glasgow, in the County of Lanark, for an invention for—"Improvements in the manufacture of nitrate of potass." *Letters Patent sealed.*

BENNETT. 27th April 1858.

930. JAMES HENRY BENNETT, Engineer, 8, Vamburgh Place, Leith, in the County of Edinburgh, for an invention for—"An improved arrangement of safety valves for steam, gas, or any aireform or liquid body." *Complete specification; Letters Patent sealed.*

TOVELL. 27th April 1858.

931. GEORGE RANDFIELD TOVELL, of Mistley, Essex, for an invention for—"Improvements in the construction of ships and other vessels." *Provisional protection only.*

DRUKKER. 27th April 1858.

932. BERNARD DRUKKER, of 116, High Street, Whitechapel, London, Shirt Maker, for an invention for—"Improvements in making shirts." *Letters Patent sealed.*

MOSS. 27th April 1858.

933. MARY MOSS, of Number 15, Marlborough Place, Old Kent Road, in the County of Surrey, for an invention for—"Improvements in ladies' petticoats." *Provisional protection only.*

HULETT. 27th April 1858.

934. JOHN HULETT, in the employment of Richard Hellaby, of Aldersgate Street, in the City of London, Manufacturer, for an invention for—"An improvement in shirt collars." *Provisional protection only.*

SAUTTER. 27th April 1858.

935. MAURICE SAUTTER, of Paris, Boulevart Montmartre, No. 14, for an invention for—"A new and useful improvement in diving bells."—*A communication from Benjamin Maillefert, of Astoria, State of New York.* *Letters Patent sealed.*

KEILLER. 27th April 1858.

936. WEDDERSPOON KEILLER, of Dundee, and Perth, North Britain, Confectioner, for an invention for—"Improvements in apparatus for cutting, reducing, or dividing vegetable, animal, and other substances." *Letters Patent sealed.*

NEWTON. 27th April 1858.

937. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery for splitting leather or skins."—*A communication.* *Letters Patent sealed.*

HUGHES. 27th April 1858.

938. DAVID EDWARD HUGHES, of New York, in the United States of America, but now residing in London, Telegraphic Engineer, for an invention for—"Improvements in the means of and apparatus for transmitting signals and electric currents." *Letters Patent sealed.*

CHARPENTIER. 27th April 1858.

939. JEAN FRANÇOIS MICHEL CHARPENTIER, of No. 39, Southampton Row, Russell Square, in the County of Middlesex, Gentleman, for an invention for—"A fire escape." *Provisional protection only.*

MENNONS. 28th April 1858.

940. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, No. 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved apparatus for the condensation of smoke."—*A communication.*

Provisional protection only.

MENNONS. 28th April 1858.

941. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, No. 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved saponaceous compound."—*A communication.*

Provisional protection only.

MENNONS. 28th April 1858.

942. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for —"An improved process for combining silk with other textile substances."—*A communication.* *Letters Patent sealed.*

MARTIN. LIGHT. 28th April 1858.

943. BROOKE MARTIN, and CHARLES JULIAN LIGHT, both of Great George Street, Westminster, in the County of Middlesex, Engineers, for an invention for—"Improvements in railway turntables." *Letters Patent sealed.*

TOMLINSON. 28th April 1858.

944. EDWARD TOMLINSON, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in cop tubes and in the machinery or apparatus to manufacture the same." *Letters Patent sealed.*

VASSEROT. 28th April 1858.

945. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved waterproof fabric."—*A communication from Jules Joseph de Frey, of Bordeaux, in the Empire of France.*

Provisional protection only.

CLARK. 28th April 1858.

946. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in railway crossings."—*A communication from Emile Poiret.* *Letters Patent sealed.*

NEWTON. 28th April 1858.

947. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improvements in the construction of paddle-wheels."—*A communication.*

Letters Patent sealed.

TAPIÉ. 28th April 1858.

948. LUCIEN TAPIÉ, of Bordeaux (France), Retired Officer of the Navy, for an invention for—"Improvements in ship building." *Provisional protection only.*

WINKLER. 28th April 1858.

949. ALOIS WINKLER, of Vienna, in the Austrian Empire, but now residing in Leicester Square, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in printing or producing impressions in gold, silver, and oil colours, upon metallic plates, and in the mechanism employed therein."

Letters Patent sealed.

JOHNSON. 28th April 1858.

950. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in furnaces for the melting and reduction of steel, copper, zinc, and other metals."—*A communication from Charles André, Mechanician.* *Provisional protection only.*

MARTIN. 29th April 1858.

951. JOHN MARTIN, of Barmer, near Fakenham, in the County of Norfolk, Farmer, for an invention for—"Improvements in machinery or apparatus for reducing, cutting, or pulping roots and other substances." *Letters Patent sealed.*

BARTLETT. 29th April 1858.

952. STEPHEN BARTLETT, of No. 135, Lupus Street, Pimlico, in the County of Middlesex, for an invention for—"Improvements in machinery for forming gutta-percha soles and uniting them to the upper leathers of boots or shoes."—*A communication.* *Provisional protection only.*

SIMONS. 29th April 1858.

953. EDWARD SIMONS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in ordnance."

Provisional protection only.

PERKINS. 29th April 1858.

954. ANGIER MARCH PERKINS, of Francis Street, Gray's Inn Road, for an invention for—"Improvements in high pressure steam-engines."

Letters Patent sealed.

LAWRENCE. 29th April 1858.

955. CHARLES LAWRENCE, of Honley, near Huddersfield, in the County of York, Engineer, for an invention for—"Improvements in steam-engines."

Letters Patent sealed.

JOHANNY. 29th April 1858.

956. ROBERT JOHANNY, Engineer, of the City of Vienna, in the Empire of Austria, for an invention for—"Improvements in the construction of furnaces." *Letters Patent sealed.*

SMITH. 29th April 1858.

957. WILLIAM SMITH, of No. 18, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"Improvements in spinning-machinery."—*A communication from Joseph Hartog, of Rouen, in the Empire of France.* *Letters Patent sealed.*

SMITH. 29th April 1858.

958. WILLIAM SMITH, of 18, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"Improvements in steam ploughs."—*A communication from Peirre Klingle, a citizen of and resident in the United States of America.* *Letters Patent sealed.*

AULD. 29th April 1858.

959. DAVID AULD, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in working furnaces and steam-boilers, and in apparatus connected therewith." *Letters Patent sealed; specification filed by order.*

HUYGENS DE LOWENDAL. 30th April 1858.

960. R. B. HUYGENS DE LOWENDAL, of 89, Chancery Lane, London, for an invention for—"Improvements in the construction of springs and for their new application to the working of machinery." *Provisional protection only.*

CHADWICK. ELLIOTT. ROBERTSON. 30th April 1858.

961. JOHN CHADWICK, of the City of Manchester, Silk Manufacturer, ARTHUR ELLIOTT, of West Houghton, in the County of Lancaster, Mechanic, in the employ of the said John Chadwick, and WILLIAM ROBERTSON, of the City of Manchester, Mechanician, for an invention for—"Improvements in machines for twisting and winding silk direct from the cocoons, such machines being of the class commonly known as throstles." *Letters Patent sealed.*

LUIS. 30th April 1858.

962. JOZÉ LUIS, of No. 1B, Welbeck Street, Cavendish Square, in the County of Middlesex, for an invention for—"Proper apparatus for separating the substances of different densities, among others may be mentioned pit coal from the slate which it contains."—*A communication.* *Provisional protection only.*

DE BRUN. 30th April 1858.

963. BENJAMIN EDOUARD GUYOT DE BRUN, residing at Pantin, Rue de Montreiul, 18 (Seine), in the Empire of France, for an invention for—"Leather tissue and other tissues rendered waterproof by a new process." *Letters Patent sealed.*

PEAUCELLIER. 30th April 1858.

964. BENJAMIN LOUIS AUGUSTE PEAUCELLIER, residing at Paris, Boulevard Bonne Nouvelle, No. 10, in the Empire of France, for an invention for—"An improved plough." *Letters Patent sealed.*

HUGHES. 30th April 1858.

965. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agent, 123, Chancery Lane, London, for an invention for—"An improved regulator and float combined, applicable to the manufacture of paper."—*A communication from Pierre Denuelle, of Lyons, in the Empire of France.* *Letters Patent sealed.*

FAUCON. 30th April 1858.

966. JULES CESAR FAUCON, of Paris, in the French Empire, Iron Bedstead Manufacturer, for an invention for—"Improvements in bedsteads, bed-bottoms, seats, and articles for lying and reclining on." *Provisional protection only.*

CHAPMAN. 30th April 1858.

967. JAMES CHAPMAN, Junior, of the North Foreland Light House, in the parish of Saint Peter's, Thanet, County of Kent, for an invention for—"Producing a substance intituled felted woody fibre, convertible into useful articles, and applicable to the internal fittings and decorations of dwelling-houses." *Provisional protection only.*

ELLIS. 30th April 1858.

968. GEORGE HENRY ELLIS, of New Malton, in the County of York, Ironmonger, for an invention for—"Improvements in cleaning boots and shoes by machinery, and in apparatus for the same, which is also applicable to cleaning other articles in domestic use." *Letters Patent sealed.*

CLARK. 30th April 1858.

969. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in obtaining motive-power and in the apparatus connected therewith."—*A communication.* *Letters Patent sealed.*

GODEFROY. 30th April 1858.

970. PETER AUGUSTIN GODEFROY, of 3, King's Mead Cottages, in the County of Middlesex, Operative Chemist, for an invention for—"Improvements in the mode of separating vegetable from animal fibres or fabrics." *Provisional protection only.*

DEMANET.
30th April 1858.

971. CHARLES ARMAND JOSEPH DEMANET, of No. 43, Ru de la Science Brussels, Lieutenant-Colonel of the Corps du Génie, in the service of His Majesty the King of the Belgians, for—"An invention for the extraction of coals and minerals from mines." *Provisional protection only.*

JOHNSON.
30th April 1858.

972. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in suspension bridges."—*A communication from Freidrich Schnirch, of Vienna, in the Empire of Austria.* *Letters Patent sealed.*

SMITH.
30th April 1858.

973. ANDREW SMITH, of Mauchline, in the County of Ayr, North Britain, Manufacturer of Scotch fancy wood work, for an invention for—"Improvements in valves." *Letters Patent sealed.*

PHYMONI.
1st May 1858.

974. JOHN PHYMONI, of Crooked Lane, in the City of London, Mechanist, for an invention for—"Improvements in apparatus for catching fish in tidal rivers and other watercourses." *Provisional protection only.*

WARDELL.
1st May 1858.

975. ROBERT WARDELL, of Stanwick, near Darlington, in the County of York, for an invention for—"Improvements in reaping-machines." *Letters Patent sealed.*

ILLINGWORTH.
1st May 1858.

976. ROBERT ILLINGWORTH, of Blackburn, in the County of Lancaster, Engineer and Draughtsman, for an invention for—"Improvements in safety valves." *Letters Patent sealed.*

SPENCE.
1st May 1858.

977. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the production and application of a material called French purple, and in the process employed in obtaining it."—*A communication.* *Letters Patent sealed.*

TALABOT.
1st May 1858.

978. LEON TALABOT, of No. 57, Rue de la Chaussée d'Antin, Paris, Merchant, for an invention for—"Improvements in rolling railway and other bars." *Letters Patent sealed.*

HOPKINSON.
DEWHURST.
1st May 1858.

979. WILLIAM HOPKINSON, and JOHN DEWHURST, both of the Mayfield Print Works, Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in apparatus for consuming smoke." *Letters Patent sealed.*

GREGORY.
1st May 1858.

980. FREDERICK MICHAEL GREGORY, of Shavington, near Market Drayton, in the County of Shropshire, for an invention for—"Improvements in chaff-cutting machines." *Provisional protection only.*

HARTMANN.
3rd May 1858.

981. JULES ALBERT HARTMANN, Chemist, of Mulhouse, a Town of France, for an invention for—"Improvements in preparing and combining colours for printing cotton cloth." *Letters Patent sealed.*

SCHLEICHER.
3rd May 1858.

982. CHARLES SCHLEICHER, of Bellevallée, near the Town of Aix-la-Chapelle, in the Kingdom of Prussia, for an invention for—"An improved machine intended to make the points of needles, pins, and all other similar articles." *Letters Patent sealed.*

ETCHELLS.
CONSTERDINE.
CATTELL.
3rd May 1858.

983. SAMUEL ETCHELLS, of the Town and County of the Town of Nottingham, Engineer, ABRAHAM CONSTERDINE, also of the Town and County of the Town of Nottingham, Working Smith, and SAMUEL CATTELL, of Radford, in the County of Nottingham, Engine Smith, for an invention for—"A reversing water tube iron to work with single blast or double blast as occasion may require, and an arrangement of water tube irons and parts connected therewith." *Provisional protection only.*

TROWER.
3rd May 1858.

984. EDWARD SPENCER TROWER, of Stansteadbury, near Ware, in the County of Hertford, for an invention for—"Improvements in apparatus for treating flax, hemp, and other fibrous matters requiring like treatment." *Letters Patent sealed.*

TAYLOR.
3rd May 1858.

985. JOHN TAYLOR, of Roupell Park, Streatham Hill, in the County of Surrey, for an invention for—"Improvements in stoves and fire-places." *Letters Patent sealed.*

APPOLD.
3rd May 1858.

986. JOHN GEORGE APPOLD, of Wilson Street, Finsbury Square, in the County of Middlesex, Gentleman, for an invention for—"Improved apparatus for laying submarine telegraphic cables." *Letters Patent sealed.*

CLARK.
3rd May 1858.

987. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in separating and in otherwise treating matters in a state of fusion, and in apparatus for the same."—*A communication from Alphonse Anthelme Antoine de Rostaing.*
Letters Patent sealed.

SMETHURST.
4th May 1858.

988. JOSEPH SMETHURST, of Guide Bridge, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in boilers for generating steam."
Letters Patent sealed.

SWAIN.
SWAIN.
4th May 1858.

989. JOHN SWAIN, of Hyde, in the County of Chester, Ironfounder, and MATTHEW SWAIN, of Dukinfield, in the same County, Engineer, for an invention for—"Certain improvements in metallic pistons." *Letters Patent sealed.*

MORRISON.
4th May 1858.

990. WILLIAM HENRY MORRISON, of Nottingham, Manufacturer, for an invention for—"Improvements in means or apparatus employed in the manufacture of bonnet and cap fronts, rouches, and such like articles of millinery."
Letters Patent sealed.

MEALL.
4th May 1858.

991. HENRI LUCIEN MEALL, of No. 3, St. Matthew's Place, Hackney Road, in the County of Middlesex, Surgeon, for an invention for—"Improvements in spring fastenings suitable to be used for dresses, brooches, and other purposes."
Provisional protection only.

NEWTON.
4th May 1858.

992. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for mixing and moulding materials for the manufacture of fuel, parts of which apparatus are applicable to moulding bricks and other analogous articles."—*A communication.* *Letters Patent sealed.*

THOM.
PHILLIPS.
5th May 1858.

993. DAVID THOM, and GEORGE ALDCROFT PHILLIPS, both of Pendleton, in the County of Lancaster, Soap Manufacturers, for an invention for—"Improvements in apparatus for bleaching and raising oil and fat." *Letters Patent sealed.*

SHARP.
5th May 1858.

994. RICHARD SHARP, of Lowther Street, Liverpool, in the County of Lancaster, Piano-forte Manufacturer, for an invention for—"Improvements in piano-fortes."
Provisional protection only.

ROSS.
5th May 1858.

995. WILLIAM ROSS, of Glasgow in the County of Lanark, North Britain, Brass Founder, for an invention for—"Improvements in taps or valves."
Letters Patent sealed.

ARCHIBALD.
5th May 1858.

996. CHARLES DICKSON ARCHIBALD, of Rusland Hall, in the County Palatine of Lancaster, England, at present at New York, United States of America, Esquire, for an invention for—"A new and improved mode of treating air and gases, and applying the same for purposes of motive force."—*A communication from Henry Munro Paine, of Worcester, Massachusetts, United States.*
Letters Patent sealed; specification filed by order.

JOHNSON.
5th May 1858.

997. JOHN HENRY JOHNSON, of 47, Lincoln's-Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in signal and indicating apparatus for railways."—*A communication from Henry Maule, of Philadelphia, in the United States of America.* *Provisional protection only.*

PRESTON.
5th May 1858.

998. THOMAS PRESTON, of Nottingham, Manufacturer, for an invention for—"Improvements in the manufacture of cut pile fabrics in warp machines."
Letters Patent sealed.

HOLLANDS.
5th May 1858.

999. WILLIAM SIMON HOLLANDS, of 5, Anchor Terrace, Mawbey Road, Old Kent Road, in the County of Surrey, for an invention for—"Improvements in extracting and purifying oils and fatty matters." *Letters Patent sealed.*

LAWSON.
ROBINSON.
5th May 1858.

1000. JOHN LAWSON, and THOMAS ROBINSON, of Leeds, in the County of York, for an invention for—"Improvements in machinery for hackling and dressing flax, and other fibrous substances." *Letters Patent sealed.*

HOLSTEAD.
5th May 1858.

1001. THOMAS HOLSTEAD, of the City of Carlisle, in the County of Cumberland, Confectioner, for an invention for—"Improvements in machinery for the manufacture of certain articles of confectionery, which improvements are also applicable to the manufacture of biscuits and the like, and to other articles from plastic substances."
Provisional protection only.

HUGHES. 5th May 1858.

1002. DAVID EDWARD HUGHES, of New York, in the United States of America, but now residing at Devonport, in Devon, in England, Telegraphic Engineer, for an invention for—"An improved apparatus for measuring fluids." *Letters Patent sealed.*

RICHARDS. 6th May 1858.

1003. JOHN RICHARDS, of Moorgate Street, in the City of London, Master Mariner, for an invention for—"Improvements in rotatory pumps." *Provisional protection only.*

DAVIS. 6th May 1858.

1004. MARCUS DAVIS, of 5, Lyons Inn, in the County of Middlesex, for an invention for—"Improvements in carriage wheels and in means of retarding their motion." *Letters Patent sealed.*

WILLWAY. 6th May 1858.

1005. JOHN SWEET WILLWAY, of the City and County of Bristol, Gas Engineer, for an invention for—"An improved arrangement of apparatuses for ringing bells." *Letters Patent sealed.*

WHITLEY. 6th May 1858.

1006. JOSEPH WHITLEY, of Leeds, in the County of York, for an invention for—"Improvements in the manufacture of iron, which improvements are also applicable when obtaining other metals from their ores." *Letters Patent sealed.*

HEAP. 6th May 1858.

1007. WILLIAM HEAP, of the Oldham Road Tool Works, Ashton-under-Lyne, in the County of Lancaster, Tool Maker and Machinist, for an invention for—"Improvements in pipe joints or couplings." *Letters Patent sealed.*

SCOTT. 6th May 1858.

1008. EDWARD JOHN SCOTT, of Glasgow, in the County of Lanark, North Britain, Shoe Manufacturer, for an invention for—"Improvements in the manufacture of boots and shoes." *Letters Patent sealed.*

ASHWORTH. 6th May 1858.

1009. HALL ASHWORTH, of Prestwich, in the County of Lancaster, Hide and Size Dealer, for an invention for—"Certain improvements in machinery or apparatus for cutting hides or skins." *Letters Patent sealed.*

THACKER. 6th May 1858.

1010. THOMAS WOOD THACKER, of Derby, in the County of Derby, Piano-forte Dealer, for an invention for—"Improvements in the construction of the finger ends of piano-forte, organ, and harmonium keys." *Letters Patent sealed.*

BRIDGMAN. 6th May 1858.

1011. JOHN BRIDGMAN, of Hamburgh, for an invention for—"Improvements in cooling fluids, and in the application of cold." *Provisional protection only.*

CASEY. HUGHES. 6th May 1858.

1012. JOHN CASEY, Silk Manufacturer, and JAMES HUGHES, Silk Weaver, both of Spital Square, in the City of London, for an invention for—"Improvements in looms for weaving velvet ribbons." *Provisional protection only.*

NEWTON. 6th May 1858.

1013. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of saltpetre." *Letters Patent sealed.*

CLARK. 6th May 1858.

1014. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in 'bitts' for horses' bridles."—*A communication.* *Letters Patent sealed.*

WRIGHT. 6th May 1858.

1015. JAMES WRIGHT, of 10, Alfred Place, Newington Causeway, Southwark, County of Surrey, Civil Engineer, for an invention for—"Improvements in treating madder for printing and dying, and also in the substances and processes used in printing and dying with the same."—*A communication.* *Letters Patent sealed.*

JACKSON. 6th May 1858.

1016. HENRY JACKSON, of 2, Park Street, Leeds, Engineer, for an invention for—"Improvements in machinery for dressing and cleaning flax, hemp, and other fibrous substances requiring like treatment." *Letters Patent sealed.*

WALLIS. LANGFORD. SLACK. 6th May 1858.

1017. WILLIAM WALLIS, WILLIAM LANGFORD, and JAMES SLACK, of Nottingham, for an invention for—"Improvements in pressure gauges." *Letters Patent sealed.*

BUNNETT. BUNNETT. 7th May 1858.

1018. JOSEPH BUNNETT, and JOSEPH GEORGE BUNNETT, of Deptford, in the County of Kent, Engineers, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

CARR. 7th May 1858.

1019. CHARLES JOHN CARR, of Wentworth, Yorkshire, Engineer, for an invention for—"Improvements in forge and other hammers." *Letters Patent sealed.*

CASTLE. 7th May 1858.

1020. JOHN CASTLE, of Grantham, in the County of Lincoln, Coach Maker, for an invention for—"Certain improvements in breaks used for retarding the motion of carriages on ordinary roads." *Letters Patent sealed.*

OPENSHAW. 7th May 1858.

1021. RICHARD OPENSHAW, of Firwood, near Bolton-le-Moors, in the County of Lancaster, Finisher, for an invention for—"Improvements in machinery for plating down or folding and measuring fabrics." *Letters Patent sealed.*

DUFF. GILCHRIST. 7th May 1858.

1022. WILLIAM DUFF, and JOHN GILCHRIST, of Liverpool, in the County of Lancaster, Engineers, for an invention for—"Improvements in apparatus for measuring water and other fluids, also capable of being used as a motive-power." *Provisional protection only.*

DUVARD. 7th May 1858.

1023. JAMES MICHAEL DUVARD, of Luc-sur-Mer, Calvados, in the Empire of France, Physician, for an invention for—"An improved bedroom vase." *Letters Patent sealed.*

FIELD. 7th May 1858.

1024. JAMES JOHN FIELD, of Paddington, in the County of Middlesex, Chemist, for an invention for—"Improvements in evaporating or in extracting moisture from liquids and from substances in a liquid state, and in apparatus to be employed therein." *Letters Patent sealed.*

NEILSON. 7th May 1858.

1025. ARCHIBALD NEILSON, of Glasgow, in the County of Lanark, North Britain, Spirit Dealer, for an invention for—"Improvements in the manufacture of boots, shoes, and other coverings for the feet." *Provisional protection only.*

NEWTON. 7th May 1858.

1026. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of firegrates for furnaces, stoves, and other fireplaces."—*A communication.* *Letters Patent sealed.*

COGGAN. 7th May 1858.

1027. GEORGE BARTLETT COGGAN, of No. 108, Friar Gate, Derby, in the County of Derby, for an invention for—"A new portable apparatus to be called a 'Stereoscopia' for exhibiting stereoscopic pictures." *Provisional protection only.*

BOTTEN. TAYLOR. 7th May 1858.

1028. CHARLES BOTTEN, Junior, of Clerkenwell, in the County of Middlesex, Engineer, and NATHANIEL FORTESCUE TAYLOR, of Stratford, in the County of Essex, Gas Engineer, for an invention for—"Improvements in means or apparatus employed in measuring and in regulating the flow of gas and other fluids." *Provisional protection only.*

BEST. 7th May 1858.

1029. ROBERT BEST, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in illumination." *Letters Patent sealed.*

BROWN. BROWN. 7th May 1858.

1030. THOMAS BROWN, of Ebbw Vale, in the County of Monmouth, Iron Manufacturer, and DAVID BROWN, of Cwmbran, in the County of Monmouth, Manager of Works, for an invention for—"New or improved machinery for filing or smoothing the ends of fish plates, rails, wrought-iron railway chairs, and other articles made by sawing bars transversely." *Letters Patent sealed.*

STOTHARD. JONES. JONAS. JONAS. 7th May 1858.

1031. DANIEL STOTHARD, of Lambeth, JOSEPH JONES, of Southwark, both in the County of Surrey, DAVID JONAS, and BENJAMIN WOOLF JONAS, both of Spitalfields, in the County of Middlesex, for an invention for—"An improved ships' block." *Provisional protection only.*

CLARK. 7th May 1858.

1032. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in apparatus for sharpening saws."—*A communication.* *Letters Patent sealed.*

ROBSON. 8th May 1858.

1033. JOHN THOMAS ROBSON, of No. 45, Hugh Street West, Pimlico, in the County of Middlesex, Engineer, for an invention for—"Improvements in sheet-flue and tubular boilers."—*A communication.* *Letters Patent sealed.*

NEWTON. 8th May 1858.

1034. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in machinery for manufacturing paper."—*A communication.* *Letters Patent sealed.*

NEWTON. 8th May 1858.

1035. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in grinding circular saws."—*A communication.* *Letters Patent sealed*

NEWTON. 8th May 1858.

1036. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved manufacture of hard and waterproof fabric, and the application of the same to the construction of boats, parts of carriages and of furniture, portmanteaus and travelling cases, and vessels of capacity."—*A communication.* *Letters Patent sealed.*

DAY. 8th May 1858.

1037. GEORGE DAY, of the Parish of Old St. Pancras, in the County of Middlesex, Copper Smith, for an invention for—"An improved self-acting valve for regulating the flow of liquids." *Provisional protection only.*

GOLDSWORTHY. 10th May 1858.

1038. ROBERT BRUCE GOLDSWORTHY, of the City of Manchester, Emery Manufacturer, for an invention for—"Improvements in machinery for grinding emery and other materials." *Letters Patent sealed.*

VASSEROT. 10th May 1858.

1039. CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"Improvements in the manufacture of umbrellas and parasols."—*A communication from Pierre Theophile Trocard, of Cauderon, near Bordeaux, in the Empire of France.* *Provisional protection only.*

VASSEROT. 10th May 1858.

1040. CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, London, Patent Agent, for an invention for—"Improved driving machinery applicable either for thrashing, winnowing, cleaning, and bruising grain, cutting straw, or other agricultural purposes."—*A communication from Le Comte Jean Baptiste de Galard-Béarn, of Montignac-le-Coq, Charente, in the Empire of France.* *Provisional protection only.*

OGDEN. 10th May 1858.

1041. WILLIAM HENRY OGDEN, of Liverpool, in the County of Lancaster, Iron Founder, for an invention for—"Improvements in pumps." *Letters Patent sealed.*

FORSTER. 10th May 1858.

1042. WILLIAM CHARLTON FORSTER, of No. 6, Great Tower Street, in the City of London, Gentleman, for an invention for—"An improvement in the manufacture of bricks and slabs, for preventing damp in the walls of houses and other buildings." *Letters Patent sealed.*

BELL. 10th May 1858.

1043. ISAAC LOWTHIAN BELL, of the Washington Chemical Works, Newcastle-upon-Tyne, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

MASSON. 10th May 1858.

1044. JACQUES MARIE EDOUARD MASSON, of the Rue de Fossés St. Thomas, at Evreux (Eure), in the Empire of France, Householder, for an invention for—"Improvements in diving apparatus." *Letters Patent sealed.*

WILLAN. MILLS. 10th May 1858.

1045. ROBERT WILLAN, and DANIEL MILLS, of Blackburn, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in machinery or apparatus for drawing-in, twisting, or looming textile materials." *Provisional protection only.*

TAYLOR. 10th May 1858.

1046. WILLIAM GARNETT TAYLOR, of Ashby-de-la-Zouch, in the County of Leicester, Gentleman, for an invention for—"Improvements in covering the rollers employed in spinning cotton and other fibrous materials." *Letters Patent sealed.*

PIM. PAYNE. 10th May 1858.

1047. JOHN BEDFORD PIM, of Newington Butts, Stationer, and CHARLES PAYNE, of Bermondsey Street, Southwark, Licensed Victualler, both in the County of Surrey, for an invention for—"Improvements in recovering useful matters from oil or floor cloth, tarpaulin, American leather cloth, and other like substances." *Letters Patent sealed.*

APPARUTI. 11th May 1858.

1048. PIETRO APPARUTI, residing at Paris, Rue Constantine, 24, in the Empire of France, for an invention for—"A machine applicable for picking and choosing out corn." *Provisional protection only.*

LUIS. 11th May 1858.

1049. JOZÉ LUIS, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A mechanical washing-apparatus for iron ore and other matters."—*A communication.* *Letters Patent sealed.*

CRESWELL. 11th May 1858.

1050. GEORGE HENRY CRESWELL, of Devonport, in the County of Devon, for an invention for—"Improvements in pads and apparatus for inking stamps." *Letters Patent sealed.*

JOHNSON. 11th May 1858.

1051. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in madder dyeing."—*A communication from Robert Patterson, of the City of Philadelphia, in the United States of America.* *Provisional protection only.*

FAIRBURN. 11th May 1858.

1052. EDWARD FAIRBURN, of Kirklees Mills, Mirfield, in the County of York, Card Manufacturer, for an invention for—"Improvements in machinery or apparatus employed in carding wool or other fibrous substances." *Letters Patent sealed.*

SOUTTER. 11th May 1858.

1053. JAMES SOUTTER, of Hoxton, in the County of Middlesex, Engineer, for an invention for—"Improvements in washing-machines." *Letters Patent sealed.*

PARE. 11th May 1858.

1054. WILLIAM PARE, of the Irish Engineering Company, Seville Iron Works, Dublin, for an invention for—"Improvements in metallic and other bedsteads and other articles of furniture." *Letters Patent sealed.*

PARKES. 11th May 1858.

1055. ALEXANDER PARKES, of Birmingham, for an invention for—"Improvements in the manufacture of tubes and cylinders." *Letters Patent sealed.*

PARKES. 11th May 1858.

1056. ALEXANDER PARKES, of Birmingham, for an invention for—"Improvements in rollers or cylinders used for printing and embossing." *Letters Patent sealed.*

OLIVER. 11th May 1858.

1057. WILLIAM OLIVER, of Cradley, in the County of Worcester, Engineer, for an invention for—"Improvements in combining ovens for the manufacture of coke with the furnaces of steam-boilers." *Provisional protection only.*

HALLIWELL. 11th May 1858.

1058. ROBERT HALLIWELL, of Bolton-le-Moors, in the County of Lancaster, Foreman, for an invention for—"Certain improvements in mules for spinning and doubling cotton and other fibrous materials." *Letters Patent sealed.*

LOWRY. 11th May 1858.

1059. GEORGE LOWRY, of Salford, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in machinery for heckling flax and other fibrous materials." *Letters Patent sealed.*

GILBERT. 11th May 1858.

1060. JAMES MONTGOMERY GILBERT, of the City of Manchester, Engraver, for an invention for—"Improvements in the construction of cylinders and maundrils used in printing calico and other surfaces." *Letters Patent sealed.*

DYSON. SHIRT. SHIRT. 11th May 1858.

1061. JOHN DYSON, EDWIN WILKINSON SHIRT, and HENRY SHIRT, Steel Rollers, of Tinsley Works, near Sheffield, in the County of York, for an invention for—"Improvements in the mode of rolling strips of steel for crinoline and other purposes." *Letters Patent sealed.*

HENDERSON. 12th May 1858.

1062. JOHN HENDERSON, of Glasgow, in the County of Lanark, North Britain, Druggist, for an invention for—"An improved apparatus for measuring fluids." *Provisional protection only.*

DURAND. 12th May 1858.

1063. LOUIS DURAND, of Marseille, a Town in the French Empire, Civil Engineer, for an invention for—"An improved tubular steam generator." *Letters Patent sealed.*

DIOSY. 12th May 1858.

1064. M. DIOSY, of 123, Fenchurch Street, London, Agent for Chollet and Company, of Paris, Patentees of Compressed Vegetables, for an invention for—"Improvements in machinery for preparing or manufacturing granulated potatos for preservation."—*A communication.* *Letters Patent sealed.*

DÉTROYAT. TEUBERT. 12th May 1858.

1065. JOSEPH APOLLON DÉTROYAT, of No. 10, Rue de Choiseul, in the City of Paris, France, Hair-dresser, and FAUSTIN TEUBERT, of No. 18, Rue de Choiseul, Paris, aforesaid, Hatter, for an invention for—"Improvements in apparatus for cleansing hair combs and other similar articles." *Provisional protection only.*

CLARKE. 12th May 1858.

1066. JOSEPH AUGUSTUS CLARKE, of Liverpool, in the County Palatine of Lancaster, Engineer, for an invention for—"Improvements in composition for coating vessels' bottoms." *Letters Patent sealed.*

MARK. 12th May 1858.

1067. WILLIAM MARK, of Stockton-on-Tees, in the County of Durham, for an invention for—"Improvements in roofing and other tiles." *Provisional protection only.*

WEST. 12th May 1858.

1068. JOSEPH WEST, Brass Turner, of 234, Shales Moor, Sheffield, in the County of York, for an invention for—"A mode of covering and securing water taps and branches." *Letters Patent sealed.*

ROGERS. 12th May 1858.

1069. ALFRED HENRY ROGERS, of Fairfield, near the City of Manchester, Engineer, for an invention for—"Improvements in lubricators." *Provisional protection only.*

SHARPLES. 12th May 1858.

1070. JAMES SHARPLES, of Crawshaw Booth, near Rawtenstall, in the County of Lancaster, Madder Dyer, for an invention for—"Improvements in extracting moisture from and drying porous and fibrous substances." *Letters Patent sealed.*

KNIGHT. 12th May 1858.

1071. RICHARD KNIGHT, of Foster Lane, Cheapside, in the City of London, for an invention for—"Improvements in apparatus for refrigerating also for bottling aërated liquids, and in the preparation or storing salts for the production of artificial mineral waters." *Letters Patent sealed.*

JACKSON. 12th May 1858.

1072. JOSEPH GRATIAN JACKSON, of Belper, in the County of Derby, for an invention for—"A method of carrying roads over (or through) land covered with water." *Provisional protection only.*

BIGGS. 12th May 1858.

1073. JAMES BIGGS, of Norton Folgate, in the City of London, Tobacco Manufacturer, for an invention for—"Improved apparatus for compressing vegetable and other substances." *Provisional protection only.*

LIÉTOUT. 12th May 1858.

1074. ALFRED LÉONOR LIETOUT, of Paris, in the Empire of France, for an invention for—"Improved portable medical and hygienic gymnastic apparatus." *Provisional protection only.*

BAILEY. BAILEY. 12th May 1858.

1075. JOSEPH SHARP BAILEY, Wool Comber, and WILLIAM HENRY BAILEY, Mechanic, both of Keighley, in the County of York, for an invention for—"Improvements in machinery for preparing and combing wool, cotton, and other fibrous materials." *Letters Patent sealed.*

HAMILTON. 12th May 1858.

1076. JOHN HAMILTON, of Belfast, in the County of Antrim, Starch Manufacturer, for an invention for—"Improvements in the preparation and use of starch for manufacturing, bleaching, and finishing purposes." *Letters Patent sealed.*

SIMONS. 13th May 1858.

1077. WILLIAM SIMONS, of Glasgow, in the County of Lanark, North Britain, Ship Builder, for an invention for—"Improvements in the construction of iron ships or vessels." *Provisional protection only.*

HISLOP. 13th May 1858.

1078. ROBERT HISLOP, Junior, of Preston Pans, in the County of Haddington, North Britain, Farmer, for an invention for—"Improvements in machinery or apparatus for dressing or cleansing and separating grain and seeds."—*Letters Patent sealed.*

DIX. 13th May 1858.

1079. ALEXANDER MILLS DIX, of Hanley, in the County of Stafford, Brewer, for an invention for—"Certain improvements in the process of brewing or obtaining decoctions, and in apparatus connected therewith, which apparatus is also applicable to condensing, refrigerating, or other such like purposes." *Letters Patent sealed.*

DELIRY. 13th May 1858.

1080. FELIX ALEXANDER DELIRY, of Soissons, a Town of France, Baker, for an invention for—"An improved mechanical kneading-trough." *Provisional protection only.*

WOLFF. 13th May 1858.

1081. AUGUSTE WOLFF, of Paris, France, Chief of the firm Pleyel, Wolff & Company, for an invention for—"Improvements in musical instruments." *Letters Patent sealed.*

HYDE. 13th May 1858.

1082. HIRAM HYDE, of Truro, Nova Scotia, Gentleman, for an invention for—"An improved mode of and improved apparatus for manufacturing oils."—*A communication.* *Letters Patent sealed.*

GARDNER. 13th May 1858.

1083. JOSEPH GARDNER, of Banbury, in the County of Oxford, Ironmonger, for an invention for—"An improvement in chaff-cutting machines." *Letters Patent sealed.*

WARREN. 14th May 1858.

1084. FREDERICK WARREN, of Birmingham, in the County of Warwick, Mechanical Engineer, for an invention for—"Improvements in the construction of stands for telescopes and other instruments." *Provisional protection only.*

COLGATE. 14th May 1858.

1085. JOHN COLGATE, of 56, Exmouth Street, in the County of Middlesex, for an invention for—"A pipe case handle for walking sticks, canes, riding whips, and umbrellas." *Provisional protection only.*

CARPENTER. 14th May 1858.

1086. SAMUEL CARPENTER, of Flushing, County of Queens, State of New York, in the United States of America, for an invention for—"Improvements in escapements for watches and other time-keepers." *Letters Patent sealed.*

DICK. 14th May 1858.

1087. DAVID DICK, Engineer, residing at 55, George Street, Paisley, in the County of Renfrew, for an invention for—"Improved cushions for trusses and other similar uses." *Provisional protection only.*

NEWTON. 14th May 1858.

1088. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of lamps."—*A communication.*

Provisional protection only.

CHANTRELL. 14th May 1858.

1089. GEORGE FREDERICK CHANTRELL, of Liverpool, in the County of Lancaster, Furnace Engineer, for an invention for—"An improved waterproof lithic paint." *Provisional protection only.*

MACINTOSH. 14th May 1858.

1090. JOHN MACINTOSH, of North Bank, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in insulating telegraphic wires."

Letters Patent sealed.

PÊTRE. 14th May 1858.

1091. LOUIS PÊTRE, of Hatton Garden, in the County of Middlesex, Glass Silverer, for an invention for—"Improvements in the application of glass to ornamental and useful purposes." *Provisional protection only.*

JOHNSON. 17th May 1858.

1092. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the construction of artificial legs and feet."—*A communication from Douglas Bly, of Rochester, in the United States of America.* *Letters Patent sealed.*

HAYDEN. 17th May 1858.

1093. DANIEL WEBSTER HAYDEN, of 75, Pratt Street, Camden Town, in the County of Middlesex, for an invention for—"Improvements in boilers for agricultural and domestic purposes." *Provisional protection only.*

ALLEN. ALLEN. 17th May 1858.

1094. JOHN ALLEN, and WILLIAM ALLEN, of Wallsend, in the County of Northumberland, Manufacturing Chemists, for an invention for—"Improvements in the treatment of iron and copper pyrites, and in apparatus for the same."

Letters Patent sealed.

TOMBS. 17th May 1858.

1095. EDWARD TOMBS, of 4, Waterloo Terrace, Islington, London, for an invention for—"Improvements in the manufacture of ruche and other trimmings for ladies' apparel, applicable also to making cap fronts and other fluted fabrics."

Provisional protection only.

WITTENBERG. 17th May 1858.

1096. JULIUS WITTENBERG, of Cambridge Villas, Notting Hill, in the County of Middlesex, Doctor of Philosophy, for an invention for—"Improvements in motive-power engines actuated by air." *Provisional protection only.*

BAGNALL. 17th May 1858.

1097. WILLIAM HENRY BAGNALL, of Masbro', Yorkshire, Stove Grate Manufacturer, for an invention for—"Improvements in stove grates."

Letters Patent sealed.

RAYMOND. 17th May 1858.

1098. WALTER RAYMOND, of Dalston, in the County of Middlesex, Master Mariner, for an invention for—"Improvements in life rafts."

Letters Patent sealed; no specification filed.

HARRISON. 17th May 1858.

1099. CHARLES WEIGHTMAN HARRISON, of Woolwich, in the County of Kent, Civil Engineer, for an invention for—"Improvements in obtaining light by electricity." *Letters Patent sealed.*

HILER. 17th May 1858.

1100. SELAH HILER, of Haverstraw, in the County of Rockland, and State of New York, United States of America, for an invention for—"An improved method of coating or amalgamating iron with silver, copper, brass, or other metals or alloys of metals." *Provisional protection only.*

CURZON. 17th May 1858.

1101. HENRY CURZON, Junior, of Kidderminster, for an invention for—"Improvements in preparing printed yarns." *Letters Patent sealed.*

HIGGS. 17th May 1858.

1102. SAMUEL HIGGS, Junior, of Penzance, in the County of Cornwall, for an invention for—"An improvement in separating or precipitating copper from water having it in solution." *Letters Patent sealed.*

IMEARY. RICHARDSON. 17th May 1858.

1103. ROBERT IMEARY, Alkali Manufacturer, near Gateshead, and THOMAS RICHARDSON, Practical Chemist, of Newcastle-on-Tyne, for an invention for—"Improvements in roasting small or disintegrated pyrites." *Letters Patent sealed.*

HIXON. 18th May 1858.

1104. WILLIAM JAMES HIXON, of 8, Victoria Grove Terrace, Bayswater, in the County of Middlesex, for an invention for—"Improvements in the construction of reaping and mowing machines, and in the form or shape of the knife or knives to be used in connection therewith." *Provisional protection only.*

HIGGINS. 18th May 1858.

1105. JOHN HIGGINS, of Oldham, in the County of Lancaster, Engineer, for an invention for—"Improvements in preventing explosions in mines, and in the machinery or apparatus employed therein." *Provisional protection only.*

MALLISON. 18th May 1858.

1106. JAMES MALLISON, Junior, of Bolton-le-Moors, in the County of Lancaster, Yarn Agent, for an invention for—"Improvements in the process of and in the machinery or apparatus for dyeing yarns." *Provisional protection only.*

CROLL. 18th May 1858.

1107. ALEXANDER ANGUS CROLL, of Coleman Street, in the City of London, Engineer, for an invention for—"Improvements in the treatment of sulphate of alumina, and in obtaining alum." *Letters Patent sealed.*

BROCHAND. 18th May 1858.

1108. ERNEST CIPRIEN BROCHAND, of Gerrard Street, in the County of Middlesex, Miller, for an invention for—"A travelling mill and improved millstones, part of the invention being applicable to other apparatus turned or worked by horses." *Letters Patent sealed.*

HIGGS. 18th May 1858.

1109. SAMUEL HIGGS, Junior, of Penzance, Cornwall, for an invention for—"Improvements in miners' safety lamps." *Letters Patent sealed.*

CASENTINI. 19th May 1858.

1110. GIOVANNI MARIANO CASENTINI, of 24, Hercules Buildings, Lambeth, in the County of Surrey, Architectural Modeller and Worker in Scagliola, for an invention for—"The manufacture of a solution for mixing with or gauging plaster of Paris (or any plaster having sulphate of lime or any similar substance for its base) so as to produce a hardened dense composition, the hardening or setting whereof may be retarded and regulated by the person using the same." *Letters Patent sealed.*

BROWN. 19th May 1858.

1111. JEREMIAH BROWN, of Smethwick, in the County of Stafford, Machinist, for an invention for—"Improvements in the manufacture of iron, and in rolling iron and steel, and in machinery to be employed therein." *Letters Patent sealed.*

WALKER. 19th May 1858.

1112. HENRY WALKER, of Gresham Street, in the City of London, Needle Manufacturer, for an invention for—"Improvements in the manufacture of needles." *Letters Patent sealed.*

MAC NAUGHT. CRITCHLEY. 19th May 1858.

1113. WILLIAM MAC NAUGHT, of Manchester, in the County of Lancaster, Engineer, and WALTER RICHARD CRITCHLEY, of Salford, in the same County, Copper Roller Manufacturer, for an invention for—"Improvements in the manufacture of copper or other metallic rollers or cylinders for printing fabrics, and in apparatus connected therewith." *Letters Patent sealed.*

MAUDSLAY. 19th May 1858.

1114. JOSEPH MAUDSLAY, of Lambeth, in the County of Surrey, Engineer, for an invention for—"An improvement in the manufacture of iron, and in the furnaces employed therein." *Provisional protection only.*

BOTTOMLEY. MARTIN. 19th May 1858.

1115. JAMES BOTTOMLEY, of North Bierly, near Bradford, in the County of York, Manufacturer, and ALEXANDER HENNAH MARTIN, of the same place, Mechanic, for an invention for—"Improvements in means or apparatus employed in weaving." *Letters Patent sealed.*

MILLER. 19th May 1858.

1116. GEORGE MACKEY MILLER, of the Great Southern and Western Railway, Kingsbridge Terminus, Dublin, Engineer, for an invention for—"Improvements in the joints of bridge rails for railways." *Provisional protection only.*

KERNOT. 19th May 1858.

1117. CHARLES MIDDLETON KERNOT, of Gloucester House, West Cowes, Isle of Wight, M.D., for an invention for—"Improvements in distilling shale, bog-head, and other mineral matters." *Provisional protection only.*

NEWTON. 19th May 1858.

1118. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements applicable to certain descriptions of marine engines, and in the mode of mounting paddle-wheel shafts."—*A communication.* *Letters Patent sealed.*

SNOWDEN. 19th May 1858.

1119. WILLIAM FRANCIS SNOWDEN, of Longford, in the County of Gloucester, Machine Maker, for an invention for—"An improved construction of chaff and litter cutting machine." *Provisional protection only.*

CLARK. 19th May 1858.

1120. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in machinery for manufacturing knotted webs or nets."—*A communication.* *Letters Patent sealed.*

HENRY. 19th May 1858.

1121. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improved apparatus for communicating or transmitting or producing fac simile copies of despatches, intelligence, or messages, or characters, drawings, or devices."—*A communication.* *Provisional protection only.*

HESFORD. 20th May 1858.

1122. JAMES HESFORD, of Bolton-le-Moors, in the County of Lancaster, Millwright and Engineer, for an invention for—"Improvements in the construction of stretching-machines for cotton and other woven fabrics." *Letters Patent sealed.*

BRUN. 20th May 1858.

1123. MARTIN BRUN, of Vienne (France), Dyer, for an invention for—"Improvements in dyeing." *Letters Patent sealed.*

COSSUS. 20th May 1858.

1124. ANTOINE FIDELIS COSSUS, of Cagliari, in the Kingdom of Sardinia, for an invention for—"Improvements in treating oils and fatty matters." *Provisional protection only.*

BRIERLY. 20th May 1858.

1125. HENRY BRIERLY, of Manchester, in the County of Lancaster, Mechanical Engineer, for an invention for—"Improvements in mules for spinning." *Letters Patent sealed.*

COPCUTT. 20th May 1858.

1126. JAMES COPCUTT, of 5, Park Place, Newland Street, Kensington, in the County of Middlesex, for an invention for—"An improvement in preparing materials employed to obtain light when using oxygen and hydrogen gases." *Letters Patent sealed.*

BOYDELL. 20th May 1858.

1127. JAMES BOYDELL, of 65, Gloucester Crescent, Camden Town, for an invention for—"Improvements in machinery for propelling vessels." *Provisional protection only.*

BROOMAN. 20th May 1858.

1128. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"A method of and apparatus for purifying sulphuret of carbon."—*A communication from A. Seyferth, of Brunswick.* *Provisional protection only.*

SETTLE. 21st May 1858.

1129. THOMAS SETTLE, of Bolton-le-Moors, in the County of Lancaster, Spindle Maker, for an invention for—"Certain improvements in machinery or apparatus for preparing, slubbing, and roving cotton and other fibrous materials." *Provisional protection only.*

BRANT. 21st May 1858.

1130. JOHN CHARLES BRANT, of Surrey Square, Old Kent Road, in the County of Surrey, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

BAKEWELL. 21st May 1858.

1131. FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the County of Middlesex, for an invention for—"Improvements in machinery for making bolts."—*A communication.* *Letters Patent sealed.*

HENRY. 21st May 1858.

1132. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture or preparation of ink and paper to adapt them for copying purposes, in preserving food, skins, and hides, in rendering lint, vesicatory-paper, and textile fabrics absorbent, and in treating mortar, cement, and other matters in order to keep them in a damp state."—*A communication from Messieurs Vasseurs and Houbigant.* *Letters Patent sealed.*

ADAMSON. 21st May 1858.

1133. JOHN ADAMSON, of St. John Street Road, in the County of Middlesex, Mechanic, for an invention for—"Improvements in the manufacture of parts of gas-meters." *Letters Patent sealed.*

MUNTZ. 21st May 1858.

1134. GEORGE FREDERICK MUNTZ, of French Walls, near Birmingham, for an invention for—"An improvement in preparing yellow metal sheathing." *Letters Patent sealed.*

APPERLY. CLISSOLD. 21st May 1858.

1135. JAMES APPERLY, Cloth Manufacturer, and WILLIAM CLISSOLD, Engineer, both of Dudbridge, in the County of Gloucester, for an invention for—"Improved machinery for condensing wool and other fibrous substances." *Letters Patent sealed.*

BRYER. 21st May 1858.

1136. STEPHEN BRYER, of St. George's Terrace, Cheltenham, in the County of Gloucester, Photographist, for an invention for—"Improved instruments to be used in the sensitizing and developing of photographic plates." *Letters Patent sealed.*

SHOLL.
21st May 1858.

1137. JAMES SHOLL, of Victoria Grove West, Stoke Newington, in the County of Middlesex, Ink Manufacturer, for an invention for—"Improvements in the manufacture of paper used for letter-press, lithographic, and copper-plate printing, and for other purposes." *Provisional protection only.*

CLARK.
21st May 1858.

1138. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in the processes of treatment of peat and of the hydrocarburets it contains, and in the apparatus for the same."—*A communication.* *Provisional protection only.*

ELCE.
CHAMPION.
22nd May 1858.

1139. JOHN ELCE, and JAMES CHAMPION, both of the City of Manchester, Machinists, for an invention for—"Improvements in parts of machinery used in preparing and spinning cotton and other fibrous substances." *Provisional protection only.*

FÉRON.
22nd May 1858.

1140. PIERRE FÉRON, of Theuville-aux-Maillots, in the Empire of France, Doctor of Medicine, for an invention for—"An improved bandage or truss." *Letters Patent sealed.*

RONALD.
22nd May 1858.

1141. JAMES RONALD, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improvements in dressing hemp, flax, and other fibrous materials." *Letters Patent sealed.*

HUGHES.
22nd May 1858.

1142. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, in the County of Middlesex, for an invention for—"Improvements in machinery or apparatus for embroidering."—*A communication.* *Provisional protection only.*

HUGHES.
22nd May 1858.

1143. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, in the County of Middlesex, for an invention for—"Improvements in machinery or apparatus serving the purposes both of saponification and of decomposing neutral fatty substances into fatty or oily acid and glycerine."—*A communication from Jean Boullenger and Louis Jacques Martin, of Paris, in the Empire of France.* *Provisional protection only.*

FOOT.
22nd May 1858.

1144. JOSEPH FOOT, of Spital Square, in the County of Middlesex, for an invention for—"An improvement in the manufacture of fringes." *Letters Patent sealed.*

UNDERHAY.
CLARK.
22nd May 1858.

1145. FREDERICK GEORGE UNDERHAY, of Wells Street, Gray's Inn Road, and JOSIAH LATIMER CLARK, of Haverstock Hill, Hampstead, both in the County of Middlesex, for an invention for—"Improvements in cocks or taps, and in apparatus for flushing." *Letters Patent sealed.*

CRESSEY.
22nd May 1858.

1146. THOMAS STOKES CRESSEY, of High Street, Homerton, in the County of Middlesex, for an invention for—"Improvements in apparatus for calculating wages." *Provisional protection only.*

JOHNSON.
22nd May 1858.

1147. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in curtain rods."—*A communication from Jules Antoine Pelosse.* *Letters Patent sealed.*

PRICE.
22nd May 1858.

1148. ASTLEY PASTON PRICE, of Margate, in the County of Kent, Chemist, for an invention for—"Improvements in the treatment and smelting of certain argentiferous or silver ores." *Letters Patent sealed.*

PRICE.
22nd May 1858.

1149. ASTLEY PASTON PRICE, of Margate, in the County of Kent, Chemist, for an invention for—"Improvements in the treatment of certain zinc ores and compounds of zinc, and in the manufacture of zinc and oxide of zinc." *Letters Patent sealed.*

WHITE.
22nd May 1858.

1150. GEORGE WHITE, of 34, Dowgate Hill, in the City of London, for an invention for—"A liquor suitable for manufacturing beverages and for culinary purposes."—*A communication from Messrs. Fontaine & Co., of Paris.* *Letters Patent sealed.*

ELLISSEN.
22nd May 1858.

1151. ADOLPHUS ELLISSEN, of Throgmorton Street, in the City of London, Merchant, for an invention for—"Improvements in signalling in railway trains." *Letters Patent sealed.*

BAGGS.
22nd May 1858.

1152. ISHAM BAGGS, of Doddington Grove, Kennington, in the County of Surrey, Electrical Engineer, for an invention for—"Improvements in electric telegraphs and in the apparatus employed therein and therewith, parts of which are applicable to other electrical purposes." *Letters Patent sealed.*

PARKE.
BRIANT.
22nd May 1858.

1153. GEORGE FREDERICK PARKE, of Lower Smith Street, Clerkenwell, Engraver, and JAMES BRIANT, of Curtain Road, Bedding Manufacturer, both in the County of Middlesex, for an invention for—"Improvements in bonnets." *Provisional protection only.*

CLARK.
22nd May 1858.

1154. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in machinery or apparatus for moulding articles of cement."—*A communication from François Pallard, senior, Merchant, of Moulins (Allier), in the Empire of France.* *Provisional protection only.*

HATTERSLEY.
24th May 1858.

1155. RICHARD LONGDEN HATTERSLEY, of Keighley, in the County of York, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

EDWARDS.
LOVERIDGE.
24th May 1858.

1156. JOHN EDWARDS, of No. 77, Aldermanbury, and THOMAS LOVERIDGE, of No 74, Aldermanbury, in the City of London, for an invention for—"Improvements in the manufacture of buttons and other fastenings for articles of dress." *Provisional protection only.*

STEVENS.
24th May 1858.

1157. MONTAGUE STEVENS, of Holywell, in the County of Flint, Paper Maker, for an invention for—"Improvements in machinery for pulping straw and other vegetable fibres." *Letters Patent sealed.*

SCHOLFIELD.
CUDWORTH.
24th May 1858.

1158. JOHN SCHOLFIELD, of Rochdale, in the County of Lancaster, Cotton Spinner, and WILLIAM CUDWORTH, of the same place, Manager, for an invention for—"Certain improvements in machinery or apparatus for preparing, doubling and twisting cotton and other fibrous substances." *Provisional protection only.*

HARDING.
24th May 1858.

1159. WILLIAM HARDING, of Forest Hill, in the County of Kent, for an invention for—"Improvements in revolver fire-arms." *Letters Patent sealed.*

HAMILTON.
NASH.
24th May 1858.

1160. GEORGE HAMILTON, of St. Martin's-le-Grand, and WILLIAM HENRY NASH, of Poplar, Engineer, for an invention for—"Improvements in locks and keys." *Provisional protection only.*

GALATZIN.
SOUSCHKOFF.
GUÉRINOT.
25th May 1858.

1161. PRINCE ANTOINE GALATZIN, and SERGE SOUSCHKOFF, Russian subjects, both now in Paris, Boulvart de Strasbourg, 60, and PIERRE EMMANUEL GUÉRINOT, of Paris, Mechanician Jeweller, for an invention for—"An improved apparatus intended to prevent boats or ships to be destroyed and sunk when running full against each other." *Provisional protection only.*

PHILLIPS.
25th May 1858.

1162. JOHN ARTHUR PHILLIPS, of Earl's Court Terrace, Kensington, in the County of Middlesex, Mining Engineer, for an invention for—"Improvements in the production of zinc, lead, copper, and silver, from ores containing these metals." *Provisional protection only.*

WEBSTER.
25th May 1858.

1163. WILLIAM WEBSTER, of Jefferson County, in the Territory of Washington, one of the Territories of the United States of America, for an invention for—"Improved machinery for the propulsion of vessels." *Letters Patent sealed.*

MORSE.
25th May 1858.

1164. GEORGE WOODWARD MORSE, of Baton Rouge, in the State of Louisiana, and United States of America, for an invention for—"An improvement in fire-arms and cartridges to be used therewith." *Letters Patent sealed.*

WEBSTER.
25th May 1858.

1165. WILLIAM WEBSTER, of Jefferson County, in the Territory of Washington, one of the Territories of the United States of America, for an invention for—"An improved method of rigging vessels." *Letters Patent sealed.*

MONNIN.
25th May 1858.

1166. CHARLES FREDERIC DIETZ MONNIN, of No. 26, Rue Vendôme, in the City of Paris, France, Merchant, for an invention for—"Improvements in the manufacture of rivets, screws, spikes, pins, and nails, and in machinery for that purpose."—*A communication.* *Letters Patent sealed.*

VASSEROT. 25th May 1858.

1167. CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved construction of rails for fences and gates."—*A communication from Grassin Baledans, of Arras (Pas de Calais), in the Empire of France.* *Provisional protection only.*

GRIFFITHS. 25th May 1858.

1168. PRICE GRIFFITHS, of Manchester Road, Burnley, in the County of Lancaster, Engineer, for an invention for—"Improvements in manufacturing bushes for fixing drums on shafts and other similar purposes." *Letters Patent sealed.*

ALTON. FIRNIE. 25th May 1858.

1169. GEORGE ALTON, of the Town and County of Derby, Boiler Maker, and JOHN FIRNIE, of the same place, Engineer, for an invention for—"An improvement in the construction of steam-boilers and other vessels capable of resisting pressure, and in the manufacture of plates for the same." *Letters Patent sealed.*

BELLEVILLE. 25th May 1858.

1170. JULIEN FRANÇOIS BELLEVILLE, of Paris, in the French Empire, Civil Engineer, for an invention for—"An apparatus for indicating the work of pumps." *Letters Patent sealed.*

COURAGE. 25th May 1858.

1171. JOHN COURAGE, of Horsleydown, in the County of Surrey, Brewer, for an invention for—"Improvements in furnaces for smelting and calcining." *Letters Patent sealed.*

NEWTON. 25th May 1858.

1172. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in breech-loading fire-arms and cartridges for the same."—*A communication.* *Letters Patent sealed.*

WITTY. 25th May 1858.

1173. ROBERT CHRISTOPHER WITTY, of Mitcham, in the County of Surrey, Engineer, for an invention for—"Improvements in protecting ships of war and land batteries and fortifications from injury from shot and other projectiles." *Provisional protection only.*

GATTY. 26th May 1858.

1174. FREDERICK ALBERT GATTY, of Accrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in treating cotton, or cotton yarns, and fabrics, when dyed with certain colours."—*Letters Patent sealed.*

NICHOLLS. 26th May 1858.

1175. ROBERT HAWKINS NICHOLLS, of 42, St. Michael's Hill, Bristol, for an invention for—"Improvements in taps or cocks for drawing off ale or other liquids." *Provisional protection only.*

LUIS. 26th May 1858.

1176. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"An apparatus for baking fire brick clay."—*A communication.* *Letters Patent sealed.*

LUIS. 26th May 1858.

1177. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, in the County of Middlesex, for an invention for—"A distilling pipe."—*A communication.* *Letters Patent sealed.*

LUIS. 26th May 1858.

1178. JOZÉ LUIS, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"An apparatus for cutting square-headed cork, and in corking bottles with the same."—*A communication.* *Letters Patent sealed.*

LUIS. 26th May 1858.

1179. JOZÉ LUIS, of No. 1B, Welbeck Street, Cavendish Square, in London, in the County of Middlesex, for an invention for—"The application and use of the fibrous textile plant called in Arabia, Diss, or in Latin, Arundo festuca patula, or by botanists, Festu coides et donax tenax, in the manufacturing of pulp for paper, and tow for thread, tissues, and cordage."—*A communication.* *Letters Patent sealed.*

RIDDEL. RITCHE. WATSON. ALLAN. 26th May 1858.

1180. JOHN CHARLEY RIDDEL, Ironmonger, of Belfast, in the County of Antrim, Ireland, and DAVID RITCHE, and ANDREW WATSON, Ironfounders, and JOHN FLEMING ALLAN, Pattern Maker, of Glasgow, in the County of Lanark, North Britain, for an invention for—"Improvements in cooking-ranges and other fire-places." *Provisional protection only.*

CHEADLE. 26th May 1858.

1181. GEORGE CHEADLE, of Wolverhampton, in the County of Stafford, Hardware Merchant, for an invention for—"A new or improved flooring cramp." *Letters Patent sealed.*

BAYLISS. 26th May 1858.

1182. WILLIAM BAYLISS, of the firm of WM. & M. Bayliss & Co. of Monmore Green, Wolverhampton, in the County of Stafford, for an invention for—"Iron tubular fencing to be used for general fencing as well as for the purposes of irrigation and conveying water where required for agricultural or horticultural purposes."
Letters Patent sealed.

COWAN. 26th May 1858.

1183. WILLIAM COWAN, of Edinburgh, in the County of Midlothian, North Britain, Brass Founder, for an invention for—"Improvements in machinery or apparatus for disengaging horses from carriages in cases of accidents."
Provisional protection only.

FOURGASSIÉ. 26th May 1858.

1184. PIERRE ANTOINE FOURGASSIÉ, of Castres, in the French Empire, Banker, for an invention for—"An apparatus for clod crushing, rolling, weeding, and scarifying, clearing, or preparing land."—*A communication.* *Letters Patent sealed.*

HENRY. 26th May 1858.

1185. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"A new or improved fabric, and improved sewing and stitching machine especially applicable for manufacturing the same."—*A communication from J. Imbs.* *Letters Patent sealed.*

LISTER. WARBURTON. 26th May 1858.

1186. SAMUEL CUNLIFFE LISTER, of Bradford, and JAMES WARBURTON, of Addingham, Spinners, for an invention for—"Improvements in spinning."
Letters Patent sealed.

STUART. 26th May 1858.

1187. JAMES STUART, of Sly Kate's Hill, Chatham, in the County of Kent, for an invention for—"An improvement in distilling asphalte, pitch, tar, and other bituminous substances." *Letters Patent sealed.*

BOUQUIÉ. 26th May 1858.

1188. FERDINAND BOUQUIÉ, of Paris (France), Civil Engineer, for an invention for—"Improvements in the manufacture of chains."
Letters Patent sealed; specification filed without drawings; drawings filed by order.

ENGERT. 27th May 1858.

1189. ADAM CYRUS ENGERT, of the City Road, in the County of Middlesex, Manufacturer, for an invention for—"A method of preparing tin foil or leaf in order to its employment as a substitute for silver leaf."—*A communication.*
Provisional protection only.

SCHOFIELD. HARLING. 27th May 1858.

1190. JOSEPH SCHOFIELD, of Rashcliffe, Lockwood, near Huddersfield, in the County of York, Iron Founder and Machine Maker, and GEORGE HARLING, of Primrose Hill, in Almondbury, in the County of York, Mechanic, for an invention for—"Improvements in means or apparatus employed in weaving."
Letters Patent sealed.

CUIT. GODEFROY. 27th May 1858.

1191. CHARLES CUIT, Manufacturer, and ALEXANDRE GODEFROY, Gentleman, both of Paris, in the Empire of France, for an invention for—"Improvements in railway breaks." *Provisional protection only.*

CLARK. 27th May 1858.

1192. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in preserving butter."—*A communication from Louis Belin, residing at Moulins (Allier), in the Empire of France.* *Letters Patent sealed.*

COWPER. 27th May 1858.

1193. CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in machinery for combing and preparing wool, cotton, and other fibrous materials."—*A communication.* *Letters Patent sealed.*

BOVILL. 27th May 1858.

1194. GEORGE HINTON BOVILL, of Durnsford Lodge, Wimbledon, in the County of Surrey, for an invention for—"Improvements in the manufacture of fuel." *Letters Patent sealed.*

VODOZ. 27th May 1858.

1195. VINCENT LOUIS VODOZ, of the Westminster Club, Albemarle Street, in the County of Middlesex, for an invention for—"An improvement on the chimneys and glasses of gas and other lamps." *Letters Patent sealed.*

CLARKE. 27th May 1858.

1196. CHARLES CLARKE, Master of the Newmarket Union House, Exning, in the County of Suffolk, for an invention for—"Improvements in machinery for dibbling wheat and other grain or seeds and manure." *Letters Patent sealed.*

BOWER. 27th May 1858.

1197. JOSEPH BOWER, of Hunslet, near Leeds, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of glass."
Provisional protection only.

OSLER.
28th May 1858.

1198. SAMUEL OSLER, of South Quay, Great Yarmouth, Norfolk, for an invention for—"The manufacture of fish into guano and food." *Letters Patent sealed.*

STANLEY.
FITTALL.
28th May 1858.

1199. CHARLES STANLEY, of Birmingham, in the County of Warwick, Merchant, and JOSEPH FITTALL, of Birmingham, aforesaid, Warehouse Clerk, for an invention for—"Improvements in skylights and glass roofing." *Letters Patent sealed.*

DUNN.
IRLAM.
28th May 1858.

1200. THOMAS DUNN, and WILLIAM IRLAM, both of the City of Manchester, Engineers, for an invention for—"Improvements in machinery for altering the position of locomotive engines and carriages on railways." *Letters Patent sealed.*

MENNONS.
28th May 1858.

1201. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved key joint for connecting detached pieces of wood or metal."—*A communication.* *Provisional protection only.*

MENNONS.
28th May 1858.

1202. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An aperient biscuit."—*A communication.* *Letters Patent sealed.*

TINDALL.
28th May 1858.

1203. LORENZO TINDALL, of Sherwood Foundry, Mansfield, in the County of Nottingham, Iron Founder, for an invention for—"Improvements in machinery or apparatus for sweeping and cleansing roads and streets." *Letters Patent sealed.*

LACKERSTEEN.
28th May 1858.

1204. JAMES FREDERICK LACKERSTEEN, of Young Street, Kensington, Civil Engineer, for an invention for—"Improvements in machinery for cutting and splitting wood." *Letters Patent sealed.*

GODET.
28th May 1858.

1205. AUGUSTE GODET, of 31, Rue St. Hubert, Bordeaux, France, for an invention for—"Improvements in raising weights." *Provisional protection only.*

ARNAL.
28th May 1858.

1206. AUGUSTE ARNAL, living at Rue du Faubourg St. Honoré, No. 191, in Paris, Merchant, for an invention for—"A nose bag for horses." *Provisional protection only.*

BOND.
28th May 1858.

1207. ERASMUS BOND, of Wharf Road, City Road, in the County of Middlesex, Mineral Water Manufacturer, for an invention for—"An improved aërated liquid." *Letters Patent sealed.*

SHUTTLEWORTH.
29th May 1858.

1208. JOSEPH SHUTTLEWORTH, of the Stamp End Works, Lincoln, for an invention for—"Improvements in portable and other steam-engine boilers." *Letters Patent sealed.*

SYKES.
SYKES.
SYKES.
29th May 1858.

1209. ENOCH SYKES, REUBEN SYKES, and PHILEMON SYKES, all of Huddersfield, in the County of York, for an invention for—"Improvements in continuous spinning and roving machines for spinning and roving wool, a part of which is applicable to spinning other fibrous substances." *Letters Patent sealed.*

HODGSON.
HODGSON.
29th May 1858.

1210. WILLIAM HODGSON, and HENRY HODGSON, of Thornton Road, Bradford, in the County of York, Machine and Tool Makers, for an invention for—"Improvements in machinery or apparatus for preparing and spinning or producing motley yarns from rovings of unequal thicknesses of wool or other fibrous substances." *Letters Patent sealed.*

DOLD.
29th May 1858.

1211. ALEXANDER DOLD, of Chatham, in the County of Kent, Clock Maker, for an invention for—"Improved apparatus for winding clocks, which apparatus is also applicable as a motor for all machinery usually turned by hand, horse, or other power, and for preventing the descent of smoke into chambers or other places." *Provisional protection only.*

ROCKETT.
REYNOLDS.
29th May 1858.

1212. SAMUEL ROCKETT, and JOHN JAMES REYNOLDS, both of the Strand, in the County of Middlesex, Umbrella Manufacturers, for an invention for—"Improvements in the manufacture of umbrellas and parasols." *Letters Patent sealed.*

MARTIN.
29th May 1858.

1213. JOHN MARTIN, of Newman Street, Oxford Street, in the County of Middlesex, Joiner, and Foreman to Messrs. Graham, Jackson, and Graham, Oxford Street, for an invention for—"Improvements in means or apparatus for the prevention or cure of smoky chimneys." *Provisional protection only.*

LEE.
29th May 1858.

1214. THOMAS VINCENT LEE, of Thames Chambers, York Buildings, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of steam generators applicable to marine, locomotive, and all other uses where steam is applied as the motive-power." *Provisional protection only.*

MENNONS.
29th May 1858.

1215. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved fumigating apparatus."—*A communication.* *Letters Patent sealed.*

HEBSON.
29th May 1858.

1216. DOUGLAS HEBSON, of Liverpool, in the County of Lancaster, Consulting Engineer, for an invention for—"Improvements in ships' gear, part of which is applicable to forming ropes for general purposes." *Provisional protection only.*

HENRY.
29th May 1858.

1217. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in and in preparing agents for dyeing, preparing for dyeing, and tanning, and applying certain of the resulting products for obtaining pulp for paper and pasteboard, and the manufacture of blacking."—*A communication from J. B. Vasseur and A. Houbigant.* *Letters Patent sealed.*

SCHLOSS.
29th May 1858.

1218. JOSEPH SCHLOSS, of 75, Cannon Street West, City, Merchant, for an invention for—"A so called book clasp or improved fastening of books, being also applicable to pocket-books, ledgers, blotting-cases, and similar articles where locks, bolts, or clasps are employed." *Letters Patent sealed.*

YOUNG.
STRANG.
31st May 1858.

1219. JOHN YOUNG, and JAMES STRANG, of Castle Glen, and Glasgow, in the County of Lanark, North Britain, Manufacturing Chemists, for an invention for—"Improvements in the manufacture of starch, gum, or dextrine, and their compounds." *Letters Patent sealed.*

THORNBER.
31st May 1858.

1220. JOHN BARKER THORNBER, of Halifax, in the County of York, Gentleman, for an invention for—"Improvements in carriages for children, commonly called 'perambulators,' which improvements are also applicable to invalid and other carriages." *Letters Patent sealed.*

GIRERD.
WOHLGEMUTH.
31st May 1858.

1221. JEAN BAPTISTE GIRERD, of 36, Newman Street, Oxford Street, and PAUL FREDERICK WOHLGEMUTH, of 57, New Bond Street, Hanover Square, both in the County of Middlesex, for an invention for—"Improvements in ornamental staining, dyeing, and fixing designs, writing, letter-press and type printing and cyphering, and colours, on wood or any other substances, also extracting, transferring, or discharging colours from the same." *Provisional protection only.*

SNOW.
31st May 1858.

1222. GEORGE KNOWLES SNOW, of Watertown, in the State of Massachusetts, of the United States of America, for an invention for—"A new and useful machine for affixing postage stamps to letters." *Provisional protection only.*

PARSONS.
31st May 1858.

1223. WILLIAM PARSONS, of Pratt Street, Old Lambeth, Manufacturing Engineer, for an invention for—"Improvements in steam-engines for propelling vessels and other purposes, and in bearings for the screw shafts of steam vessels." *Provisional protection only.*

JAEGER.
31st May 1858.

1224. HERMAN JAEGER, of Paris, in the Empire of France, Gentleman, for an invention for—"Improvements in dyeing wool." *Provisional protection only.*

NEWTON.
31st May 1858.

1225. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in printing and dyeing textile and other fabrics."—*A communication.* *Provisional protection only.*

AUSTIN.
ARMSTRONG.
31st May 1858.

1226. JOHN AUSTIN, of Wellington, in the County of Salop, Manufacturer, and JAMES ARMSTRONG, of Wellington, aforesaid, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of coke." *Letters Patent sealed.*

BINKS.
1st June 1858.

1227. CHRISTOPHER BINKS, of the City of London, for an invention for—"Improvements in manufacturing soap." *Provisional protection only.*

BARCHOU.
1st June 1858.

1228. ALFRED BARCHOU, 22, Cranbourne Street, Leicester Square, Parish of St. Martin in the Fields, County of Middlesex, London, for an invention for—"A heel for boots and shoes." *Letters Patent sealed.*

VASSEROT.
1st June 1858.

1229. CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"A kind of tramway to facilitate the locomotion of bedsteads."—*A communication from Antoine Gaud, of Bordeaux (Gironde), in the Empire of France.* *Provisional protection only.*

GRANT. 1st June 1858.

1230. ALONZO GAYLORD GRANT, of New York, in the United States of America, Photographic Artist, for an invention for—"A method of preparing paper in order to render it waterproof and adapted for the reception of photographic pictures." *Provisional protection only.*

GRANT. 1st June 1858.

1231. ALONZO GAYLORD GRANT, of New York, in the United States of America, Photographic Artist, for an invention for—"An improved stand or rest for cameras, theodolites, guns, and other articles." *Provisional protection only.*

CHANDLER. OLIVER. 1st June 1858.

1232. ROBERT WILSON CHANDLER, of Bow, in the County of Middlesex, Engineer, and THOMAS OLIVER, of Hatfield, in the County of Hertford, Farmer, for an invention for—"Improvements in agricultural apparatuses for ploughing and otherwise operating upon land." *Letters Patent sealed.*

LANG. 1st June 1858.

1233. JOSEPH LANG, of Calder Vale, Garstang, County of Lancaster, for an invention for—"An improved method of signalling on railways." *Provisional protection only.*

CANDY. 2nd June 1858.

1234. FRANCIS JAMES CANDY, of Haslemere, in the County of Surrey, Master of Arts, for an invention for—"Improvements in machinery for the manufacture of fishing and other nets." *Provisional protection only.*

MANNHARDT. 2nd June 1858.

1235. JOHN MANNHARDT, residing at Munich, in the Kingdom of Bavaria, for an invention for—"An improvement in machinery for the manufacturing of peat fit for fuel, and for the squeezing or forcing of fluids out of the said turf, peat, or similar substances." *Letters Patent sealed.*

LUIS. 2nd June 1858.

1236. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new farming implement called the gleaner."—*A communication.* *Letters Patent sealed.*

LUIS. 2nd June 1858.

1237. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new description of plough with fore-carriage applicable to all swing or common ploughs."—*A communication.* *Provisional protection only.*

SERVICE. 2nd June 1858.

1238. DAVID SERVICE, of Barrhead, in the County of Renfrew, North Britain, Block Cutter, for an invention for—"Improvements in apparatus for producing printing-surfaces." *Letters Patent sealed.*

WHEATSTONE. 2nd June 1858.

1239. CHARLES WHEATSTONE, of Hammersmith, in the County of Middlesex, for an invention for—"Improvements in electric telegraphs and in apparatus connected therewith." *Letters Patent sealed.*

BROWN. HODGSON. CARTER. 2nd June 1858.

1240. HENRY BROWN, BROOK HODGSON, and JOHN CARTER, all of Halifax, in the County of York, for an invention for—"Improvements in machinery for introducing and withdrawing wires when weaving." *Letters Patent sealed.*

WHEATSTONE. 2nd June 1858.

1241. CHARLES WHEATSTONE, of Hammersmith, in the County of Middlesex, for an invention for—"Improvements in electro-magnetic telegraphs, and apparatus used for transmitting signs or indications to distant places by means of electricity." *Letters Patent sealed.*

ROBERTS. SHAW. 2nd June 1858.

1242. RICHARD ROBERTS, of Heaton Norris, in the County of Lancaster, Machine Maker, and WRIGHT SHAW, of the same place, Foreman, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

LUEDEKE. 2nd June 1858.

1243. JOHAN ERNST FRIDRICH LUEDEKE, of Marke, in the Kingdom of Hanover, and of Chipping Norton, in the County of Oxford, Engineer, for an invention for—"Improvements in motive-power engines." *Provisional protection only.*

MEIKLEJON. 3rd June 1858.

1244. JOHN MEIKLEJON, of Dalkeith, in the County of Midlothian, North Britain, Horticultural Engineer, for an invention for—"Improvements in boilers for heating water, and in valves for controlling and regulating the flow or passage of the same." *Letters Patent sealed.*

OWEN. 3rd June 1858.

1245. ROBERT OWEN, of the City of Manchester, in the County of Lancaster, Gentleman, for an invention for—"Improvements in water-closets, night commodes, or similar conveniences, and also in disinfecting processes." *Letters Patent sealed.*

CLAYTON. GOODFELLOW. 3rd June 1858.

1246. WILLIAM CLAYTON, and JACOB GOODFELLOW, both of Blackburn, in the County of Lancaster, Engineers, for an invention for—"A certain improvement in pistons for pumps." *Letters Patent sealed.*

BETHELL. 3rd June 1858.

1247. JOHN BETHELL, of No. 8, Parliament Steeet, Westminster, Gentleman, for an invention for—"Improvements in the manufacture of alum." *Letters Patent sealed.*

SCHOLEFIELD. 3rd June 1858.

1248. THOMAS SCHOLEFIELD, of Paris, France, Gas Meter Manufacturer, for an invention for—"Improvements in gas meters." *Letters Patent sealed and specification filed, by order.*

NEWTON. 3rd June 1858.

1249. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved manufacture of woven fabric applicable chiefly where strength and durability are required."—*A communication.* *Letters Patent sealed.*

DALTON. 3rd June 1858.

1250. GEORGE DALTON, of Lymington, in the County of Southampton, Gentleman, for an invention for—"Improvements in furnaces for smelting the ores of iron and other minerals." *Provisional protection only.*

MITCHELL. 3rd June 1858.

1251. JOHN MITCHELL, of Dunning's Alley, Bishopsgate Street Without, in the City of London, Assayer, for an invention for—"Improvements in purifying paraffine." *Letters Patent sealed.*

OWEN. 3rd June 1858.

1252. ROBERT OWEN, of Rotherham, in the County of York, Gentleman, for an invention for—"Improvements in the manufacture of railway wheel tyres, and in machinery employed therein." *Letters Patent sealed.*

EDWARDS. 3rd June 1858.

1253. HENRY EDWARDS, of Dalston, in the County of Middlesex, Gentleman, for an invention for—"An improved pipe stem or tube." *Letters Patent sealed.*

WILSON. 3rd June 1858.

1254. THOMAS WILSON, of Bradmore House, Chiswick, in the County of Middlesex, for an invention for—"Improvements in the construction of mangles." *Letters Patent sealed.*

VON LIEBIG. 3rd June 1858.

1255. JUSTUS BARON VON LIEBIG, of Munich, in the Kingdom of Bavaria, for an invention for—"Improvements in protecting the silvered surface of mirrors and other articles of glass." *Letters Patent sealed.*

HARGREAVES. HALEY. 4th June 1858.

1256. WILLIAM HARGREAVES, and ENOCH HALEY, both of Bradford, in the West Riding of the County of York, for an invention for—"Improvements in machinery or apparatus for preparing and combing wool, hair, silk, cotton, flax, and other fibrous substances." *Provisional protection only.*

STOEHR. 4th June 1858.

1257. EMIL MORITZ STOEHR, of the City of Manchester, for an invention for—"Certain improvements in looms for weaving."—*A communication from I. A. Henze, of Wohldorf, near Hamburgh.* *Provisional Protection only.*

DICKSON. 4th June 1858.

1258. JOHN FARMERLEY DICKSON, of No. 6, Russell Street, Litchwich, near Derby, in the County of Derby, Engineer, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

MERIGHI. 4th June 1858.

1259. VITTORIO MERIGHI, of Paris (France), Gentleman, for an invention for—"Means for preventing dust on railroads." *Provisional protection only.*

MERIGHI. 4th June 1858.

1260. VITTORIO MERIGHI, of Paris, France, Gentleman, for an invention for—"Means for impeding and extinguishing fires on railway trains." *Provisional protection only.*

CRICK. CRICK. 4th June 1858.

1261. THOMAS CRICK, and JOHN THRONE CRICK, of Leicester, Boot Manufacturers, for an invention for—"Improvements in the manufacture of boots, shoes, and slippers." *Letters Patent sealed.*

QUIN. 4th June 1858.

1262. RICHARD QUIN, of 5, Rodney Street, Pentonville, in the County of Middlesex, for an invention for—"Improvements in ordnance and fire-arms." *Provisional protection only.*

BROOMAN. 4th June 1858.

1263. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in preparing the fibrous portions of certain textile plants, and the employment thereof when prepared, either alone or in combination with articles already in use, for the purposes of stuffing."—*A communication.* *Provisional protection only.*

JOHNSON. 4th June 1858.

1264. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in railway wheels and in axle-boxes and bearings for the same."—*A communication from Dr. William B. Fahnestock, of the United States of America.* *Complete specification; Letters Patent sealed.*

BANKS. 5th June 1858.

1265. JAMES BANKS, of Liverpool, in the County of Lancaster, for an invention for—"An improved reaping-machine." *Provisional protection only.*

PAGE. 5th June 1858.

1266. MICHAEL PAGE, of Valdoie, near Belfort, a Town in France, Civil Engineer, for an invention for—"A steam or power kneading apparatus." *Provisional protection only.*

CARTER. 5th June 1858.

1267. HENRY CARTER, of the City of Manchester, in the County of Lancaster, Gas Engineer, for an invention for—"Improvements in gas burners." *Provisional protection only.*

HANCOCK. 5th June 1858.

1268. CHARLES HANCOCK, of the West Ham Gutta-percha Company, West Street, Smithfield, in the City of London, for an invention for—"Improvements in the manufacture of electric telegraph cables." *Letters Patent sealed.*

COOKE. DICKINSON. 5th June 1858.

1269. EDWARD COOKE, of Smethwick, in the County of Stafford, Manager of Works, and GEORGE DICKINSON, of Smethwick, aforesaid, Manufacturer, for an invention for—"Improvements in the manufacture of metallic and other bedsteads, and other articles for sitting, lying, and reclining upon." *Letters Patent sealed.*

ORR. 5th June 1858.

1270. ROBERT ORR, of Glasgow, in the County of Lanark, North Britain, Thread Manufacturer, for an invention for—"Improved apparatus to be applied to various machines used in the manufacture of yarn or thread." *Letters Patent sealed.*

MANBRÉ. 5th June 1858.

1271. ALEXANDRE MANBRÉ, of Rathbone Place, in the County of Middlesex, Brewer, for an invention for—"An improved method of preparing malt and other grain, and in extracting the saccharine matter therefrom, whether for the purposes of brewing, distilling, or otherwise." *Letters Patent sealed.*

WHITEMAN. 5th June 1858.

1272. FREDERICK HENRY WHITEMAN, of 28, Essex Street, Islington, in the County of Middlesex, Gentleman, for an invention for—"Rendering paper hangings for decorating the interior of houses capable of being washed by soap and water without detriment to the colors thereof." *Provisional protection only.*

PORTER. 5th June 1858.

1273. WILLIAM PORTER, of No. 9, Lansdowne Villas, Brompton, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in artillery, ordnance, and some other descriptions of fire-arms." *Provisional protection only.*

HOOPER. 5th June 1858.

1274. WILLIAM HOOPER, of Mitcham, in the County of Surrey, for an invention for—"Improvements in the manufacture of projectiles." *Provisional protection only.*

HADFIELD. 5th June 1858.

1275. GEORGE HADFIELD, Varnish Manufacturer, of Carlisle, in the County of Cumberland, for an invention for—"Improvements in the protection of carboys or other vessels and packages." *Letters Patent sealed.*

SCOTSON. CHARNLEY. 7th June 1858.

1276. EDMUND SCOTSON, of Clayton, in the County of Lancaster, and HENRY CHARNLEY, of Grimshaw Street Foundry, Preston, in the same County, for an invention for—"Improvements in machinery connected with traction and other engines, and in endless railways to be used therewith." *Provisional protection only.*

FERRABEE. 7th June 1858.

1277. JAMES FERRABEE, of Thrupp, near Stroud, in the County of Gloucester, Engineer, for an invention for—"Improvements in machinery for cutting, collecting, and spreading grass, and for sweeping." *Letters Patent sealed.*

ROWLEY. 7th June 1858.

1278. JOHN JEPHSON ROWLEY, of Rawthorne, near Chesterfield, for an invention for—"Improvements in apparatus for applying lime, soot, and other matters to turnips and other crops, and manure to land." *Letters Patent sealed.*

BOULLENGER. MARTIN. 7th June 1858.

1279. JOHN BOULLENGER, Advocate, and LEWIS JAMES MARTIN, both of Paris, in the Empire of France, for an invention for—"An apparatus serving to the decomposing neutral fatty substances into fatty or oily acid and glycerine." *Provisional protection only.*

DUNLOP. 7th June 1858.

1280. JOHN MACMILLAN DUNLOP, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in apparatus for sizing fibrous materials." *Letters Patent sealed.*

WIMBALL. 7th June 1858. — **1281.** HENRY WIMBALL, of Aldermaston, in the County of Berks, Brick Manufacturer, for an invention for—"Improvements in machinery or apparatus for destroying the turnip fly and other destructive insects on growing crops." *Letters Patent sealed.*

VIGERS. 7th June 1858. — **1282.** EDWARD VIGERS, of Paddington, Gentleman, for an invention for—"Improvements in the manufacture of bricks and other articles moulded or formed from clays." *Letters Patent sealed.*

LOMBARD. ESQUIRON. 7th June 1858. — **1283.** JEAN BAPTISTE ADOLPHE LOMBARD, and XAVIER TRISTAN ESQUIRON, both of Paris, in the Empire of France, for an invention for—"A new or improved method of obtaining saccharine substances from cereal and vegetable matters, and applying the products obtained to various useful purposes." *Letters Patent sealed.*

HICKS. 7th June 1858. — **1284.** ROBERT HICKS, of Chatham Place, in the City of London, Gentleman, for an invention for—"The manufacture of a composition or compositions to be employed as black lead." *Letters Patent sealed.*

DUNLOP. 8th June 1858. — **1285.** JOHN MACMILLAN DUNLOP, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in bowls or rollers used in machines for printing fibrous materials." *Letters Patent sealed.*

WAPPENSTEIN. 8th June 1858. — **1286.** RUDOLPH WAPPENSTEIN, of the City of Manchester, in the County of Lancaster, Engraver and Printer, for an invention for—"Improvements in the manufacture of artificial whalebone applicable to umbrellas, parasols, stays, hats, bonnets, reeds, crinolines, and other similar purposes." *Letters Patent sealed.*

KETCHUM. 8th June 1858. — **1287.** ISAAC KETCHUM, of 59, Canning Street, Liverpool, in the County of Lancaster, Merchant, for an invention for—"An improved self-acting perforated baster." *Provisional protection only.*

QUINCE. 8th June 1858. — **1288.** JOHN CLIFF QUINCE, of Crosby Hall Chambers, Bishopsgate, in the County of Middlesex, Commission Agent, for an invention for—"Improvements in stoppers for bottles and jars." *Letters Patent sealed.*

BROOMAN. 8th June 1858. — **1289.** RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in the manufacture of copper pipes and tubes."—*A communication from Messieurs Liébaut and Egrot.* *Provisional protection only.*

CLARK. 8th June 1858. — **1290.** WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"The manufacture or preparation of extract of Peruvian guano."—*A communication from Alexander Cochet, of Paris, Chemist.* *Letters Patent sealed.*

ROBERTSON. 8th June 1858. — **1291.** ALEXANDER ROBERTSON, of Sheffield, in the County of York, Stove Grate Manufacturer, for an invention for—"Improvements in stoves or firegrates." *Letters Patent sealed.*

BUNNETT. 8th June 1858. — **1292.** JOSEPH BUNNETT, of Deptford, in the County of Kent, for an invention for—"Improvements in the construction of floors, roofs, and arches." *Letters Patent sealed.*

IRONS. 8th June 1858. — **1293.** DAVID IRONS, of 6, Cornwall Terrace, Creek Road, Deptford, in the County of Kent, for an invention for—"Improvements in the mariners' compass." *Letters Patent sealed.*

RAWLINGS. 8th June 1858. — **1294.** JAMES RAWLINGS, of Collingbourn Ducis, in the County of Wilts, for an invention for—"Improvements in thrashing-machines." *Letters Patent sealed.*

RIGG. RIGG. 8th June 1858. — **1295.** ARTHUR RIGG, Senior, and ARTHUR RIGG, Junior, both of Chester, for an invention for—"Improvements in apparatus for tipping or upsetting coals, minerals, or other substances, and in brake machinery." *Letters Patent sealed.*

SUARES. 9th June 1858. — **1296.** GEORGE SUARES, of No. 1, Cullum Street, Fenchurch Street, in the City of London, Merchant, for an invention for—"An improvement in fire-arms."—*A communication from Victor Collette, residing at Liège, in the Kingdom of Belgium.*" *Provisional protection only.*

GATTY. 9th June 1858. — **1297.** FREDERICK ALBERT GATTY, of Accrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in dying cotton and other fibrous materials and fabrics." *Letters Patent sealed.*

Moseley.
9th June 1858.

1298. David Moseley, of Chapel Field Works, Ardwick, in the City of Manchester, Manufacturer of India-rubber and Gutta-percha, for an invention for—"Improvements in machinery used in the manufacture of vulcanized India-rubber thread." *Letters Patent sealed.*

Lees.
9th June 1858.

1299. Samuel Lees, of Salford, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of tan or tannin, and in tanning hides to make leather." *Provisional protection only.*

Hughes.
9th June 1858.

1300. Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, in the County of Middlesex, for an invention for—"Improvements in machinery or apparatus for sowing grain."—*A communication from Auguste Alexandre Scabell, resident at Neinhagen, in the Kingdom of Prussia.* *Letters Patent sealed.*

Grimshaw.
9th June 1858.

1301. Edward Clark Grimshaw, of Denton, in the County of Lancaster, Block Turner, for an invention for—"Improvements in furnaces and steam-boilers." *Letters Patent sealed.*

Gilbee.
9th June 1858.

1302. William Armand Gilbee, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Improvements in the construction of railway wheels."—*A communication.* *Provisional protection only.*

Vasserot.
9th June 1858.

1303. Charles Frédéric Vasserot, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An apparatus for measuring and registering the flow of liquids."—*A communication from Messrs. Charles Alexis Bourdier and Albert Bartré, of Paris, in the Empire of France.* *Provisional protection only.*

Easterbrook.
9th June 1858.

1304. John Easterbrook, of the firm of Easterbrook and Allcard, of Sheffield, in the County of York, Tool Manufacturers, for an invention for—"An improvement in ratchet braces." *Letters Patent sealed.*

Dumont.
9th June 1858.

1305. Philibert Dumont, of Southwark Square, Boro', in the County of Surrey, Gentleman, for an invention for—"Improved implements for distributing or applying powder." *Letters Patent sealed.*

Treeby.
9th June 1858.

1306. Thomas Wright Gardiner Treeby, of No. 1, Westbourne Terrace Villas, Upper Westbourne Terrace, Paddington, in the County of Middlesex, for an invention for—"Improvements in revolving fire-arms and cannon, and cartridges." *Provisional protection only.*

Rollinson.
9th June 1858.

1307. Henry Rollinson, of Stepney, in the County of Middlesex, for an invention for—"An artificial fuel." *Letters Patent sealed.*

Robinson.
Ogden.
9th June 1858.

1308. Thomas Robinson, of Manchester, in the County of Lancaster, Brass Founder, and Heth Ogden, of the same place, Engineer, for an invention for—"Improvements in safety lamps and in apparatus connected therewith." *Letters Patent sealed.*

Roberts.
9th June 1858.

1309. John Roberts, of Upnor, in the County of Kent, Terra Cotta Manufacturer, for an invention for—"An improved construction of reflector or cover for gas burners." *Provisional protection only.*

Cammell.
9th June 1858.

1310. Charles Cammell, of Cyclops Steel Works, Sheffield, in the County of York, Steel Manufacturer, for an invention for—"Improvements in railway buffers." *Letters Patent sealed.*

Roberts.
9th June 1858.

1311. John Roberts, of Upnor, in the County of Kent, Terra Cotta Manufacturer, for an invention for—"An improved construction of stove." *Letters Patent sealed.*

Castle.
10th June 1858.

1312. George Castle, of No. 10, Tamworth Road, Croydon, in the County of Surrey, for an invention for—"Ventilating women's stays by means of perforation." *Letters Patent sealed.*

Mellor.
Jamieson.
10th June 1858.

1313. Thomas Walton Mellor, of Ashton-under-Lyne, in the County of Lancaster, Manufacturer, and William Jamieson, of the same place, Machinist, for an invention for—"Certain improvements in looms for weaving figured fabrics." *Letters Patent sealed.*

LUIS.
10th June 1858.

1314. JOZÉ LUIS, Patent Agent, of No. 1 B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"An alembic wine examiner."—*A communication.* *Provisional protection only.*

LUIS.
10th June 1858.

1315. JOZÉ LUIS, Patent Agent, of No. 1 B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"An improved thrashing-machine."—*A communication.* *Letters Patent sealed.*

LUIS.
10th June 1858.

1316. JOZÉ LUIS, Patent Agent, of No. 1 B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"An improved balance beam thrashing-machine."—*A communication.* *Provisional protection only.*

LUIS.
10th June 1858.

1317. JOZÉ LUIS, Patent Agent, of No. 1 B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"An improved nose bag for giving horses their oats, &c."—*A communication.* *Provisional protection only.*

CHATWIN.
TAYLOR.
10th June 1858.

1318. THOMAS CHATWIN, of Birmingham, in the County of Warwick, Machinist, and CHARLES TAYLOR, of Birmingham, aforesaid, Machinist, for an invention for "Improvements in screw stocks." *Letters Patent sealed.*

CROSLAND.
10th June 1858.

1319. JAMES STEAD CROSLAND, of Ashton-under-Lyne, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam-engines." *Letters Patent sealed.*

DAVIS.
10th June 1858.

1320. WILLIAM DAVIS, Wood Turner, of Loveday Street, Birmingham, in the County of Warwick, for an invention for—"Certain improvements in the tangs of awls, also in the mode of manufacturing awl blades or similar articles, and likewise in the stocks or pads for holding the same." *Letters Patent sealed.*

HALL.
10th June 1858.

1321. GEORGE HALL, Ironmonger, of St. John's, in the City of Worcester, of the County of that name, for an invention for—"Certain improvements in cartridges." *Letters Patent sealed.*

REYNOLDS.
10th June 1858.

1322. HENRY REYNOLDS, of King William Street, in the City of London, Gentleman, for an invention for—"An improved method of separating glycerine from saline and other substances." *Letters Patent sealed.*

WILKINSON.
10th June 1858.

1323. WILLIAM WILKINSON, of Bayswater, in the County of Middlesex, Engineer, for an invention for—"Certain new textile and other combined fabrics, and means of ornamenting fabrics and skins." *Provisional protection only.*

WILKINS.
10th June 1858.

1324. WILLIAM CRANE WILKINS, of Long Acre, in the County of Middlesex, Lighthouse Engineer, for an invention for—"Improvements in lighthouses." *Provisional protection only.*

GEMMELL.
11th June 1858.

1325. JAMES GEMMELL, of Belfast, in the County of Antrim, Ireland, Starch Manufacturer, for an invention for—"Improvements in the manufacture of starch." *Letters Patent sealed.*

BIGELOW.
11th June 1858.

1326. LUCIUS A. BIGELOW, of 133, High Holborn, in the County of Middlesex, for an invention for —"Improvements in sewing-machines."—*A communication.* *Complete specification; Letters Patent sealed.*

BIGELOW.
11th June 1858.

1327. LUCIUS A. BIGELOW, of 133, High Holborn, in the County of Middlesex, Gentleman, for an invention for—"A new and improved machine for sweeping carpeted and other floors."—*A communication.* *Provisional protection only.*

BARTHOLOMEW.
11th June 1858.

1328. GEORGE BARTHOLOMEW, of the Town and County of Linlithgow, North Britain, Edge Tool Maker, for an invention for—"Improvements in that description of gas-meters commonly called wet gas-meters." *Letters Patent sealed.*

NEWTON.
11th June 1858.

1329. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for supplying boilers with water."—*A communication.* *Letters Patent sealed.*

CHEAVIN.
11th June 1858.

1330. SQUIER CHEAVIN, of Spalding, in the County of Lincoln, Plumber and Glazier, for an invention for—"An improved preparation or combination of mineral substances applicable for use as a pigment, cement, or mastic, or to be used either alone or in combination with other well known materials for washing, scouring, cleansing, or bleaching purposes." *Letters Patent sealed.*

LEMIÈRE. 11th June 1858.

1331. LÉONARD FRANÇOIS LEMIÈRE, of Canderan, in the Empire of France, Manufacturer, for an invention for—"Improvements in treating hemp or tow for the caulking of ships and vessels, parts of which improvements are applicable to washing and cleansing textile articles or fabrics impregnated with greasy or oily matters, and in the apparatus connected therewith." *Letters Patent sealed.*

HART. 11th June 1858.

1332. GEORGE WILLIAM HART, of 5, Osborn Terrace, Southsea, for an invention for—"Improvements in the manufacture of locks." *Letters Patent sealed.*

BOUSFIELD. 11th June 1858.

1333. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in marine steam-engines." —*A communication from Daniel Barnum, of Jersey City, County of Hudson, and State of New Jersey.* *Complete specification; Letters Patent sealed.*

STIELER. 12th June 1858.

1334. GUSTAF THEODOR STIELER, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the means for generating steam and economising fuel." *Provisional protection only.*

HALL. 12th June 1858.

1335. JOSEPH HALL, Marble Mason, of Derby, in the County of Derby, for an invention for—"An improvement in the slide valves of steam-engines." *Letters Patent sealed.*

CLARK. 12th June 1858.

1336. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in machinery for combing cotton and other fibrous material."—*A communication from Jean Jacques Bourcart, Gentleman, residing at Guebwiller (Haut Rhin).* *Letters Patent sealed.*

GIBSON. POLLOCK. MARTIN. 12th June 1858.

1337. ALLAN GIBSON, JOHN POLLOCK, and JOHN MARTIN, all of Stratford, in the County of Essex, Engineers, for an invention for—"Improvements in the construction of steam-engine boilers and furnaces, for effecting the prevention of smoke." *Provisional protection only.*

CLARK. 12th June 1858.

1338. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"A new treatment or preparation of a vegetable product, and its application as a fibrous or textile material, and which he terms vegetable silk and vegetable wool."—*A communication from Auguste Alexandre de Villeneuve, and Camille Georges Beaury, Manufacturers, residing at Paris, in the Empire of France.* *Letters Patent sealed.*

NEWTON. 12th June 1858.

1339. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for cutting veneers."—*A communication.* *Letters Patent sealed.*

CLARK. 14th June 1858.

1340. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in curtain poles or rods."—*A communication from Alphonse Loustaunau, Merchant, residing at Paris, in the Empire of France.* *Provisional protection only.*

YOUNG. 14th June 1858.

1341. JAMES HADDEN YOUNG, of 66, Great College Street, Camden Town, in the County of Middlesex, for an invention for—"Improvements in setting up (composing) and distributing types." *Letters Patent sealed.*

DANIELL. 14th June 1858.

1342. HENRY JOHN DANIELL, of Donington, in the County of Derby, Colonel (late Coldstream Guards) for an invention for—"A process by which the stamp on bankers' cheques is cancelled and the cheque indelibly and simultaneously crossed." *Letters Patent sealed.*

SHRAPNEL. 14th June 1858.

1343. HENRY NEEDHAM SCROPE SHRAPNEL, of Medway Manor House, Bradford, in the County of Wilts, for an invention for—"An improvement in preparing iron and other metals or mixtures of metals for and in casting the same in moulds." *Provisional protection only.*

NEALL. 14th June 1858.

1344. GEORGE NEALL, Gas Engineer, of the Town and County of Northampton, for the invention of—"Certain improvements in gas stoves for warming, cooking, and other purposes, as also in the saucepans, kettles, or other utensils to be used with the same." *Letters Patent sealed.*

HETHERINGTON. 14th June 1858.

1345. JOSEPH HETHERINGTON, of Store Street Mills, in the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in guides or clearers used in machines for winding, reeling, and clearing threads of cotton, silk, and other fibrous materials." *Provisional protection only.*

JOHNSON. 14th June 1858.

1346. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for breaking or crushing stones for road metal and other purposes, and for crushing ores and other hard and brittle substances."—*A communication from Eli W. Blake, of New Haven, in the County of New Haven, and State of Connecticut, United States of America.* *Letters Patent sealed.*

HENDERSON. 14th June 1858.

1347. JOSEPH CLINTON HENDERSON, of Albany, in the State of New York, United States of America, for an invention for—"Improvements in stoves." *Letters Patent sealed.*

GUFFROY. 15th June 1858.

1348. CHARLES CONSTANT JOSEPH GUFFROY, Merchant, of Lille, Town in the French Empire, for an invention for—"A new smoke consuming apparatus, and also a new method of introducing the coal or fuel into it." *Complete specification; Letters Patent sealed.*

MASSON. DE LA MORINIÈRE. 15th June 1858.

1349. LOUIS CASIMIR STANISLAS MASSON, Draughtsman, and FELIX DE LA MORINIÈRE, Manufacturer, both of Paris (France), for an invention for—"Improvements in the manufacture of woven fabrics with coloured patterns." *Letters Patent sealed.*

PITT. 15th June 1858.

1350. BENJAMIN PITT, of No. 4, Great Carter Lane, Doctors' Commons, in the City of London, Engineer, for an invention for—"Improvements in the construction of knobs and roses used with locks, latches, and such like fastenings as are constructed with spindles." *Letters Patent sealed.*

ADSHEAD. 15th June 1858.

1351. GEORGE ADSHEAD, of Staley New Mills, Staley Bridge, in the County of Chester, Spinner, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

JULIUS. 15th June 1858.

1352. BARON FERDINAND JULIUS, of Wedel Jarlsberg, of Frederikswœrn, in Norway, for an invention for—"An improved self-registering compass or control compass." *Letters Patent sealed.*

WILKINS. 15th June 1858.

1353. WILLIAM PICKFORD WILKINS, of Ipswich, in the County of Suffolk, Engineer, for an invention for—"Improvements in the arrangements and construction of refrigerating apparatus." *Letters Patent sealed.*

KNOWLES. 15th June 1858.

1354. SIR FRANCIS CHARLES KNOWLES, of Lovell Hill, in the County of Berks, Baronet, for an invention for—"Improvements in the fabrication or manufacture of steel." *Letters Patent sealed.*

WARNER. 15th June 1858.

1355. HAMILTON SHIRLEY WARNER, of Trinidad, Gentleman, for an invention for—"Improvements in the manufacture of decolorizing and purifying charcoal." *Letters Patent sealed; no specification filed.*

DEMBINSKY. ENGERT. 15th June 1858.

1356. ALEXANDER DEMBINSKY, of Islington, in the County of Middlesex, Professor of Chemistry, and ADAM CYRUS ENGERT, of City Road, in the same County, Merchant, for an invention for—"An improved fire-proof composition or wash." *Provisional protection only.*

RUBERY. WARWICK. 15th June 1858.

1357. JOHN RUBERY, of Birmingham, and THOMAS WARWICK, also of Birmingham, for an invention for—"Improvements in machinery and tools for making certain portions of umbrellas and parasols and lingoes." *Letters Patent sealed.*

PREDAVALLE. 16th June 1858.

1358. BARTOLOMMEO PREDAVALLE, of No. 470, New Oxford Street, Bloomsbury, in the County of Middlesex, Engineer, for an invention for—"Improvements in the mode of obtaining motive-power." *Provisional protection only.*

BOUSFIELD. 16th June 1858.

1359. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in apparatus to be used in the construction of small boats."—*A communication.* *Letters Patent sealed.*

ATWATER. 16th June 1858.

1360. BRYAN ATWATER, of the State of Connecticut, of the United States of America, for an invention for—"An improved sewing-machine." *Complete specification; Letters Patent sealed.*

LANCASTER. 16th June 1858.

1361. CHARLES WILLIAM LANCASTER, of New Bond Street, in the City of Westminster, Gun Manufacturer, for an invention for—"An instrument or apparatus for charging cartridges for breech-loading arms." *Letters Patent sealed.*

SAWNEY. 16th June 1858.

1362. WILLIAM SAWNEY, of Beverley, in the County of York, Agricultural Implement Maker, for an invention for—"Improvements in apparatus applicable to screening, winnowing, and corn-dressing machines." *Provisional protection only.*

CREGEEN. 16th June 1858.

1363. JAMES JOSEPH CREGEEN, of Plough Road, Rotherhithe, in the County of Surrey, Doctor of Medicine, for an invention for—"Improvements in the treatment of India and China grass, pine apple, hemp, flax, and other similar fibrous materials, and in the machinery or apparatus employed therein." *Letters Patent sealed.*

DICKSON. 16th June 1858.

1364. JAMES HILL DICKSON, of Stanley Terrace, Rotherhithe, in the County of Surrey, Manufacturer, for an invention for—"Improvements in machinery or apparatus for scutching and hackling flax, hemp, and other similar fibrous materials." *Letters Patent sealed.*

HILL. 16th June 1858.

1365. JAMES CHARLES HILL, of Wildon Iron Works, near Abergavenny, in the County of Monmouth, Iron Master, for an invention for—"Improved apparatus for ascertaining and indicating the height of water in steam-boilers." *Provisional protection only.*

WESTWOOD. 16th June 1858.

1366. JOSEPH WESTWOOD, of London Yard, Isle of Dogs, Poplar, in the County of Middlesex, Ship Builder, for an invention for—"Improvements in the construction of iron ships." *Provisional protection only.*

DAVIES. 16th June 1858.

1367. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"An improved equilibrium slide valve for steam-engines."—*A communication.* *Letters Patent sealed.*

STEVEN. 16th June 1858.

1368. THOMAS STEVEN, of Glasgow in the County of Lanark, North Britain, Iron Founder, for an invention for—"Improvements in making moulds for casting." *Letters Patent sealed.*

MARSDEN. 17th June 1858.

1369. JOSEPH HENRY MARSDEN, of the City of Manchester, Hat Manufacturer, for an invention for—"Certain improvements in the manufacture of hats." *Provisional protection only.*

WALTON. 17th June 1858.

1370. FREDERICK WALTON, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—"A new or improved manufacture of japanned wares." *Provisional protection only.*

HASLAM. 17th June 1858.

1371. JOHN HASLAM, of Preston in the County of Lancaster, for an invention for —"Improvements in looms for weaving, and also in shuttles and pickers connected therewith." *Provisional protection only.*

ALLARDICE. MILLER. 17th June 1858.

1372. JOHN ALLARDICE, Brass Founder and Chandelier Manufacturer, of Glasgow, and WILLIAM MILLER, Manufacturer, of Blantyre, both places in the County of Lanark, North Britain, for an invention for—"Improvements in gasaliers." *Provisional protection only.*

DAWSON. 17th June 1858.

1373. ALFRED DAWSON, of 14, Barnes Place, Mile End Road, in the Parish of St. Dunstan's, Stepney, in the County of Middlesex, Engineer, for an invention for —"An improved apparatus for converting small coals or coal dust, or small coals and coke, or coal dust and coke, with the admixture of water or other materials, into artificial fuel." *Letters Patent sealed.*

HALE. 17th June 1858.

1374. GEORGE HALE, of Tavistock Street, Covent Garden, in the County of Middlesex, Boot and Shoe Manufacturer, for an invention for—"Improved apparatus for obtaining motive-power." *Provisional protection only.*

TAYLOR. TAYLOR. 17th June 1858.

1375. SAMUEL TAYLOR, and DAVID TAYLOR, of Rochdale, in the County of Lancaster, Machinists, for an invention for—"Improvements in machinery or apparatus for putting machine straps or belts on to pulleys or drums, and for removing the same." *Letters Patent sealed.*

CROCKFORD. 17th June 1858.

1376. CHARLES CROCKFORD, of Holywell, Flintshire, Smelter, for an invention for—"Improvements in the treatment of the ores of zinc, and in spelter making." *Provisional protection only.*

BLIZZARD. 18th June 1858.

1377. WILLIAM BLIZZARD, of 14, Victoria Terrace, Ladbroke Road, Notting Hill, London, Middlesex, for an invention for—"Improvements in India-rubber, gutta-percha, and drying and other oils." *Provisional protection only.*

SHAW. 18th June 1858.
1378. JAMES SHAW, of Cheapside, Leicester, for an invention for—"Improvements in fire-arms." *Provisional protection only.*

NEWALL. 18th June 1858.
1379. ROBERT STIRLING NEWALL, of Gateshead, in the County of Durham, for an invention for—"Improvements in the manufacture of cords, ropes, and cables." *Letters Patent sealed; no specification filed.*

SPENCE. 18th June 1858.
1380. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in clogs, shoes, or supports for the feet."—*A communication.* *Provisional protection only.*

MARTIN. 18th June 1858.
1381. PIERRE BLAISE EMILE MARTIN, of Paris, in the French Empire, Civil Engineer, for an invention for—"Improvements in obtaining electro-motive power." *Letters Patent sealed.*

SPILSBURY. 19th June 1858.
1382. FRANCIS GYBBON SPILSBURY, of Dresden, in the Kingdom of Saxony, Gentleman, for an invention for—"Making tungstic acid and certain of its salts, and for using the same to decolor acetic acid and its compounds." *Provisional protection only.*

HEWITT. 19th June 1858.
1383. SAMUEL HEWITT, of the City of Manchester, Commission Agent, for an invention for—"An improved application of printed designs to cotton and other fabrics, and for improvements in the treatment during the processes of printing and finishing such fabrics." *Letters Patent sealed.*

HOPE. SLATER. 19th June 1858.
1384. ALEXANDER JAMES BERESFORD BERESFORD HOPE, of Arklow House, Connaught Place, in the County of Middlesex, Esquire and M.P., and WILLIAM SLATER, of Carlton Chambers, Regent Street, in the County of Middlesex, Architect, for an invention for—"An improved method of applying iron, or a combination of iron and other substances, to the construction of churches and other buildings." *Provisional protection* NOT *granted.*

BRADSHAW. 19th June 1858.
1385. JOHN BRADSHAW, of Bolton-le-Moors, in the County of Lancaster, for an invention for—"Certain improvements in apparatus for obtaining and producing motive-power." *Provisional protection only.*

WINANS. WINANS. 19th June 1858.
1386. ROSS WINANS and THOMAS WINANS, of the City and County of Baltimore, in the State of Maryland, United States of America, for an invention for—"A new and useful improvement in the form of the hulls of steam vessels." *Letters Patent sealed.*

WINANS. WINANS. 19th June 1858.
1387. ROSS WINANS, and THOMAS WINANS, of the City and County of Baltimore, in the State of Maryland, United States of America, for an invention for—"A new and improved steam vessel." *Letters Patent sealed.*

WINANS. WINANS. 19th June 1858.
1388. ROSS WINANS, and THOMAS WINANS, of the City and County of Baltimore, and State of Maryland, United States of America, for an invention for—"A new and useful improvement in ocean steamers." *Letters Patent sealed.*

WINANS. WINANS. 19th June 1858.
1389. ROSS WINANS, and THOMAS WINANS, of the City and County of Baltimore, and State of Maryland, United States of America, for an invention for—"A new and useful improvement in the mode of combining the engines and propeller shafts of steam vessels." *Letters Patent sealed.*

HALLDON. 19th June 1858.
1390. RICHARD HALLDON, of Willenhall, in the County of Stafford, Locksmith, for an invention for—"Certain improvements connected with engines worked by steam or atmospheric power." *Provisional protection only.*

BECU. 19th June 1858.
1391. HIPPOLYTE BECU, of Merville, Departement du Nord, France, for an invention for—"Improvements in the manufacture of laths and in fixing and nailing the same." *Letters Patent sealed.*

ANDERSON. 21st June 1858.
1392. SIR JAMES CALEB ANDERSON, of Fermoy, in the County of Cork, Baronet, for an invention for—"Improvements in locomotion, parts of which are applicable for other purposes." *Letters Patent sealed.*

HENSON. 21st June 1858.
1393. HENRY HENSON HENSON, of No. 38, Parliament Street, in the City of Westminster, for an invention for—"Preserving or waterproofing ropes, strands, cordage, cables, and other similar articles." *Letters Patent sealed.*

BROOMAN. 21st June 1858.

1394. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in steam cocks."—*A communication from A. Reding.*

Provisional protection only.

BROOMAN. 21st June 1858.

1395. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in treating wood to preserve and color it, and in apparatuses to be employed therein."—*A communication from Messieurs Lègé and Pironnet.*

Letters Patent sealed.

LAWDER. 21st June 1858.

1396. JAMES LAWDER, Lieutenant and Brevet Captain in the Honorable the East India Company's Army, for an invention for—"A method of supporting or carrying knapsacks, packs, and other weights on the back."

Provisional protection only.

CROSSLEY. 21st June 1858.

1397. JOHN CROSSLEY, of St. Helen's, in the County of Lancaster, Glass Manufacturer, for an invention for—"Improvements in machinery for grinding, smoothing, and polishing glass." *Letters Patent sealed.*

WILKINS. 21st June 1858.

1398. WILLIAM CRANE WILKINS, of Long Acre, in the County of Middlesex, Lighthouse Engineer, for an invention for—"Improvements in lamps."

Letters Patent sealed.

THRIFT. HIGH. 21st June 1858.

1399. WILLIAM THRIFT, and ADAM HIGH, both of Bedford Street, Commercial Road East, in the County of Middlesex, Plumbers, for an invention for—"Improvements in house water-closets." *Provisional protection only.*

NEWTON. 21st June 1858.

1400. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved method of effecting the separation of the fibres of wood for the manufacture of paper therefrom, which is also applicable to the separation of the fibres of flax or other substances for the manufacture of textile fabrics, and also to the separation of other substances for similar or other purposes."—*A communication.* *Letters Patent sealed.*

NEWTON. 21st June 1858.

1401. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in the manufacture of spoons and forks."—*A communication.*

Provisional protection only.

NEWTON. 21st June 1858.

1402. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the process and machinery for obtaining from waste and refuse felted fabrics of wool, fur, or other materials, fibres in a suitable condition for being worked into felt and other fabrics."—*A communication.* *Letters Patent sealed.*

SCRIVEN. 21st June 1858.

1403. GARDNER RUSSELL SCRIVEN, of the City of Philadelphia, in the United States of America, Gentleman, for an invention for—"An improved apparatus for ventilating, and for circulating, moving, or otherwise acting upon air or other fluids."

Provisional protection only.

DEACON. 21st June 1858.

1404. HENRY DEACON, of Widnes Dock, near Warrington, in the County of Lancaster, Alkali Manufacturer, for an invention for—"Improvements in purifying alkaline lees." *Letters Patent sealed.*

MAYALL. JACKSON. 22nd June 1858.

1405. MILES MAYALL, of Mossley, in the County of Lancaster, Cotton Spinner, and GEORGE JACKSON, of the same place, Manager, for an invention for—"Improvements in machinery or apparatus for spinning cotton and other fibrous substances." *Provisional protection only.*

SCHAUB. 22nd June 1858.

1406. GEORGE SCHAUB, of Birmingham, in the County of Warwick, Electro Metallurgist, for an invention for—"Improvements in the manufacture of door plates, sign boards, and other surfaces having inscriptions, designs, or ornaments thereon, and in the manufacture of detached letters, designs, and ornaments, to be affixed to walls and sign boards, or used for other like purposes."

Letters Patent sealed.

GALLOWAY. GALLOWAY. 22nd June 1858.

1407. WILLIAM GALLOWAY, and JOHN GALLOWAY, both of Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in machinery for cutting, bruising, chipping, and rasping, or otherwise treating or preparing dye woods and roots or other vegetable substances." *Letters Patent sealed.*

PYM.
22nd June 1858.

1408. JOHN PYM, of Trinity Square, in the County of Surrey, Gentleman, for an invention for—"Improvements in machinery for felling trees."
Provisional protection only.

RAINÉ.
22nd June 1858.

1409. JULES ADOLPHE RAINÉ, of No. 16, Wells Street, Gray's Inn Road, in the County of Middlesex, Gentleman, for an invention for—"Improvements in collapsible framework for bedsteads, sofas, and other like articles of furniture."
Letters Patent sealed.

KENWORTHY.
22nd June 1858.

1410. WILLIAM EDWARD KENWORTHY, of Water Lane, Leeds, in the County of York, Chemist and Shoddy Merchant, for an invention for—"Improvement in manufacture of steel." *Provisional protection only.*

BROWN.
YOUNG.
22nd June 1858.

1411. PETER BROWN, and BENJAMIN YOUNG, of Spa Road, Bermondsey, in the Borough of Southwark, Glue Manufacturers, for an invention for—"Improvements in the manufacture of white lead." *Letters Patent sealed.*

COCKEY.
COCKEY.
COCKEY.
22nd June 1858.

1412. EDWARD COCKEY, HENRY COCKEY, and FRANCIS CHRISTOPHER COCKEY, of the firm of Edward Cockey and Sons, of the Frome Iron Foundry, in the County of Somerset, Engineers, for an invention for—"Improvements in apparatus employed in the manufacture of cheese." *Provisional protection only.*

ROBERTSON.
22nd June 1858.

1413. JAMES ROBERTSON, of Glasgow, in the County of Lanark, North Britain, Machinist, for an invention for—"Improvements in apparatus for regulating the flow or passage of fluids."—*A communication.* *Provisional protection only.*

BARLOW.
23rd June 1858.

1414. SAMUEL BARLOW, of Stakehill, near Middleton, in the County of Lancaster, Bleacher, for an invention for—"Improvements in machinery or apparatus for bleaching or cleansing textile fabrics or materials." *Letters Patent sealed.*

SPENCER.
23rd June 1858.

1415. THOMAS SPENCER, of No. 192, Euston Road, Euston Square, London, Analytical Chemist, for an invention for—"Improvements in the treatment of iron ores and ferruginous sands, and certain applications arising therefrom."
Letters Patent sealed.

VERO.
EVERITT.
23rd June 1858.

1416. CHARLES VERO, of Atherstone, in the County of Warwick, Hat Manufacturer, and JAMES EVERITT, of Atherstone, aforesaid, Hat Manufacturer, for an invention for—"Improvements in the manufacture of hats." *Letters Patent sealed.*

LIVSEY.
STOTT.
23rd June 1858.

1417. PETER JOEL LIVSEY, Engineer, of the City of Manchester, and FREDERICK LUKE STOTT, of Rochdale, Machine Maker, both in the County of Lancaster, for an invention for—"Improvements applicable to machinery for warping yarns or threads." *Letters Patent sealed.*

CLIBRAN.
CLIBRAN.
23rd June 1858.

1418. WILLIAM CLIBRAN, and JOSEPH CLIBRAN, of the City of Manchester, Machinists and Manufacturers of Gas Governors, for an invention for—"Improvements in apparatus or arrangements for distributing, governing the pressure of, and lighting gas." *Letters Patent sealed.*

ARMSTRONG.
23rd June 1858.

1419. ROBERT ARMSTRONG, of North Woolwich, in the County of Essex, Consulting Engineer, for an invention for—"Improvements in steam-boilers and furnaces."—*Partly a communication from David William Bowman, of Pernambuco, in the Empire of the Brazils, Engineer.* *Letters Patent sealed.*

PAXTON.
23rd June 1858.

1420. SIR JOSEPH PAXTON, Knight, M.P., of Rock Hill, Sydenham, for an invention for—"Improvements in the manufacture of horticultural buildings, or glazed structures for horticultural and other purposes." *Letters Patent sealed.*

RUMNEY.
MELLOR.
MACDONALD,
23rd June 1858.

1421. ROBERT RUMNEY, of Manchester, in the County of Lancaster, Manufacturing Chemist, JAMES MELLOR, of the same place, Chemist, and WILLIAM STEVENSON MACDONALD, of the same place, Mechanic, for an invention for—"Improvements in dyeing and printing cotton, wool, silk, and other materials and fabrics."
Provisional protection only.

NEWTON.
23rd June 1858.

1422. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in centrifugal governors for steam-engines and other motors."—*A communication.* *Letters Patent sealed.*

BORDAS.
24th June 1858.

1423. CHARLES BORDAS, of No. 8, Upper Stamford Street, Blackfriars' Road, London, Designer in Embroidery, for an invention for—"Improvements in the mode or method of producing embroidery." *Provisional protection only.*

BATES.
YORK.
PARKIN.
24th June 1858.

1424. JAMES BATES, of Hyde, in the County of Chester, Spinner, JOHN YORK, of the same place, Iron Moulder, and WILLIAM PARKIN, of Sheffield, in the County of York, Iron Founder, for an invention for—"Improvements in pistons and plungers." *Letters Patent sealed.*

GRIFFITHS.
24th June 1858.

1425. PRICE GRIFFITHS, of Manchester Road, Burnley, in the County of Lancaster, Engineer, for an invention for—"Improvements in the manufacture of shaft couplings." *Letters Patent sealed.*

COLLIER.
24th June 1858.

1426. GEORGE COLLIER, of Halifax, in the County of York, for an invention for —"Improvements in means or apparatus for the stretching and drying of woven fabrics." *Letters Patent sealed.*

ROBINSON.
24th June 1858.

1427. JOSEPH ROBINSON, of the East India Road, in the County of Middlesex, Surveyor to the Peninsular and Oriental Company, for an invention for—"Improvements in applying and adapting water-closets to ships so as to insure the safety and more perfect ventilation of the same." *Provisional protection only.*

NEWTON.
24th June 1858.

1428. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for manufacturing friction matches."—*A communication.*
Letters Patent sealed.

JOHNSON.
24th June 1858.

1429. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for making bolts and rivets."—*A communication.* *Letters Patent sealed.*

PICKERING.
24th June 1858.

1430. RALPH PICKERING, of Lockerbie, in the County of Dumfries, North Britain, Railway Inspector, for an invention for—"Improvements in apparatus for communicating signals from one part of a railway train to another."
Provisional protection only.

CAHOON.
24th June 1858.

1431. CHARLES WILLIAM CAHOON, of the State of Maine, of the United States of America, for an invention for—"An improved machine for sowing seed or fertilizing material or other substances, broad cast."
Complete specification; Letters Patent sealed.

BETTS.
25th June 1858.

1432. JOHN BETTS, of the Strand, in the County of Middlesex, Map Publisher, for an invention for—"Improvements in obtaining surfaces on which to print maps and other designs." *Provisional protection only.*

NIGHTINGALE.
25th June 1858.

1433. CHARLES NIGHTINGALE, of Wardour Street, Soho, in the County of Middlesex, Bedding Manufacturer, for an invention for—"Improvements in apparatus applicable to curling and spinning machines for horse hair and other materials."
Letters Patent sealed.

BOOTH.
25th June 1858.

1434. THOMAS BOOTH, of Rahere Street, Goswell Road, in the County of Middlesex, Carpenter, for an invention for—"Improvements in mounting and fitting wheels and axles to carriages, which improvements are also applicable to pullies and other parts moving on axes." *Provisional protection only.*

SMITH.
25th June 1858.

1435. PETER RECTOR SMITH, of the United States of America, of 2, Rue St. Appoline, Paris (Empire of France), and 45, Essex Street, Strand, London, for an invention for—"Improvements in fire-arms and ordnance, and in the projectiles to be used therewith." *Provisional protection only.*

MAUDSLAY.
25th June 1858.

1436. JOSEPH MAUDSLAY, of Lambeth, in the County of Surrey, Engineer, for an invention for—"An improvement in the construction of furnaces for melting iron, steel, and other metals." *Letters Patent sealed.*

WESTWOOD.
25th June 1858.

1437. JOSEPH WESTWOOD, of London Yard, Isle of Dogs, Poplar, in the County of Middlesex, Ship Builder, for an invention for—"Improvements in the plating of ships and floating and other batteries, to render the same shot proof."
Provisional protection only.

TAYLOR. 25th June 1858.

1438. JOHN TAYLOR, of Swanton Novers, Thetford, in the County of Norfolk, Farm Bailiff, for an invention for—"An improvement in the construction of horse-hoes, applicable also to drills." *Letters Patent sealed.*

CRANE. 26th June 1858.

1439. PATRICK MOIR CRANE, of the Irish Peat Company's Works, Athy, Ireland, Manager, for an invention for—"Improvements in the manufacture of fuel from peat." *Letters Patent sealed.*

LEMON. 26th June 1858.

1440. THOMAS LEMON, of Duke Street, in the Town of Cardiff, in the County of Glamorgan, Agricultural Implement Manufacturer, for an invention for—"Improving Cartwright's original patent chain harrow." *Complete specification; protection for* SIX *months only.*

TIZARD. 26th June 1858.

1441. WILLIAM LITTELL TIZARD, of Mark Lane, in the City of London, Brewers' Engineer, for an invention for—"An improved method of treating brewers' and distillers' malt or grist." *Letters Patent sealed.*

WHITEHALL. 26th June 1858.

1442. SAMUEL WHITEHALL, of the Jacquard Works, Huskinson Street, in the Town and County of the Town of Nottingham, Mechanician, for an invention for—"Certain improvements in finishing lace and other fabrics." *Letters Patent sealed.*

WOOFE. 26th June 1858.

1443. WILLIAM WOOFE, of the City of Gloucester, Agricultural Implement Maker, for an invention for—"Improvements in implements for paring, hoeing out, and clearing land, and for depositing seed." *Provisional protection only.*

MANNING. 26th June 1858.

1444. JAMES ALEXANDER MANNING, of the Inner Temple, in the County of Middlesex, Esquire, for an invention for—"An improved mode of intercepting and treating the sewage of London and towns and cities similarly situated." *Provisional protection only.*

FLINN. 26th June 1858.

1445. THOMAS VALENTINE FLINN, of Edwards Place, Deynesford Road, Camberwell Green, in the County of Surrey, Painter and Glazier, for an invention for—"Improvements in sash bars for the purpose of drainage." *Provisional protection only.*

CAMPBELL. 26th June 1858.

1446. DANIEL CAMPBELL, of Wemyss Castle, Kirkaldy, in the County of Fife, for an invention for—"A new grubbing and harrowing land roller." *Provisional protection only.*

PINCHON. HARRIS. 26th June 1858.

1447. EDOUARD PINCHON, and WILLIAM RANDALL HARRIS, both of Elbaif (France), Merchants, for an invention for—"Improvements in machinery for manufacturing healds or harness used in looms for weaving." *Letters Patent sealed.*

D'HEURLE. 26th June 1858.

1448. EDME EDOUARD D'HEURLE, of Paris (France), Manufacturer, for an invention for—"Improvements in boxes for keeping and measuring coffee, tea, and other substances requiring to be preserved from contact of the air." *Letters Patent sealed.*

PREECE. CLARK. 26th June 1858.

1449. WILLIAM HENRY PREECE, of 7, Bernard Street, Primrose Hill, and JOSIAH LATIMER CLARK, of Adelaide Road, Haverstock Hill, both in the County of Middlesex, for an invention for—"Improvements in electric telegraphs." *Letters Patent sealed.*

ERHARD. 26th June 1858.

1450. CHARLES ERHARD, of No. 7, Rue de Navarain, in the City of Paris, France, Engineer, for an invention for—"Improvements in apparatus for boring wells."—*A communication from Messrs. Chanoit and Catelineau.* *Letters Patent sealed.*

HAMMOND. 28th June 1858.

1451. ISAAC HAMMOND, of the City of Winchester, Gun Maker, for an invention for—"Drawing the cartridge case from the barrel of a breech-loading gun." *Letters Patent sealed.*

LUIS. 28th June 1858.

1452. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"An apparatus permitting the different parts of machinery working in the water of screw vessels with wells to be examined and mended."—*A communication.* *Letters Patent sealed.*

LUIS. 28th June 1858.

1453. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street (Cavendish Square), London, in the County of Middlesex, for an invention for—"An improved machine for reaping corn."—*A communication.* *Provisional protection only.*

MORGAN. 28th June 1858.

1454. JOHN MORGAN, of Rotherhithe, in the County of Surrey, Rope Maker, for an invention for—"Improvements in machinery or apparatus for manufacturing or spinning rope yarns or other yarns." *Letters Patent sealed.*

MORRIS. 28th June 1858.

1455. GEORGE MORRIS, of Regent Street, in the County of Middlesex, Hosier, for an invention for—"An improvement in shirt and other collars." *Provisional protection only.*

COOMBE. 28th June 1858.

1456. JAMES CANE COOMBE, of 10, Alfred Place, Newington Causeway, Southwark, County of Surrey, Chemist, for an invention for—"Improvements in the method of and apparatus for manufacturing manures from fæcal and other matters." *Provisional protection only.*

SIEMENS. 28th June 1858.

1457. CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the County of Middlesex, for an invention for—"Improvements in cleansing tidal rivers." *Provisional protection only.*

NEWTON. 28th June 1858.

1458. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of and apparatus for making nails."—*A communication.* *Letters Patent sealed.*

NEWTON. 28th June 1858.

1459. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"A new mode of applying engraved plates, or electrotype or other substitutes for such plates, to the cylinders of printing presses, and of applying other parts of such presses, in combination with the cylinders, to enable perfect impressions to be taken from the cylindrical surfaces of the plates."—*A communication.* *Letters Patent sealed.*

YOUNG. BROWN. 28th June 1858.

1460. BENJAMIN YOUNG, and PETER BROWN, of Spa Road, Bermondsey, in the Borough of Southwark, Glue Manufacturers, for an invention for—"An improved method of collecting and disposing of the sewage of towns or cities." *Letters Patent sealed.*

CALVERT. 29th June 1858.

1461. FRANCIS ALTON CALVERT, of the City of Manchester, Engineer, for an invention for—"Improvements in machinery for cleaning and preparing cotton, wool, and other fibrous materials." *Provisional protection only.*

STEVENS. 29th June 1858.

1462. EBENEZER STEVENS, of No. 5 and 6, Cambridge Road, Cambridge Heath, in the County of Middlesex, for an invention for—"An improved cooking utensil." *Provisional protection only.*

SHAW. 29th June 1858.

1463. JOHN SHAW, of Manchester, in the County of Lancaster, Mechanic, for an invention for—"A machine to manufacture square paper and other bags." *Letters Patent sealed.*

SHAW. 29th June 1858.

1464. JOHN SHAW, of Manchester, in the County of Lancaster, Mechanic, for an invention for—"A machine to manufacture conical paper and other bags." *Letters Patent sealed.*

HARCOURT. 29th June 1858.

1465. JOSEPH HARCOURT, Ironmonger, of Broad Street, Birmingham, in the County of Warwick, for an invention for—"An improved adjustable spindle for locks and latches." *Provisional protection only.*

NISSEN. 29th June 1858.

1466. HILARY NICHOLAS NISSEN, of 13, Mark Lane, in the City of London, Stationer, for an invention for—"A method of preparing paper for receiving stains or copies from letters and other writings." *Provisional protection only.*

BAKER. 29th June 1858.

1467. WILLIAM BAKER, of 8, Albert Villas, Seven Sisters Road, Holloway, in the County of Middlesex, for an invention for—"Improvements in constructing covered ways for the passage of sewage on the banks of rivers." *Provisional protection only.*

GREAVES. 29th June 1858.

1468. HUGH GREAVES, of Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in apparatus for moulding, casting, and coating metal articles." *Provisional protection only.*

BARRAT. BARRAT. 30th June 1858.

1469. PIERRE PHILLIPPE CELESTIN BARRAT, and JEAN BAPTISTE BARRAT, of 33, B^{ard} St. Martin, Paris, in the Empire of France, for an invention for—"Improvements in machinery for digging, reaping, mowing, and performing certain agricultural operations, and for cutting drains and excavating, partly applicable to arrangements for communicating motion for other purposes." *Letters Patent sealed.*

WHEATCROFT. SMITH. 30th June 1858.

1470. WILLIAM SMITH WHEATCROFT, Civil Engineer, and JAMES NEWTON SMITH, Agent, both of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements in locks, fastenings, or safe guards, making them self-acting or partially self-acting. *Provisional protection only.*

FATTORINI. 30th June 1858.

1471. SANTINI FATTORINI, of Milan (Italia), Optician, residing in Rue Jean Goujon, No. 2, in the City of Paris, France, at Mr. Atlee's, for an invention for—"An universal meridian applicable to mathematical, geometrical, and precise instruments." *Provisional protection only.*

NICOLL. 30th June 1858.

1472. BENJAMIN NICOLL, of 42, Regent Circus, and 46, Lombard Street, London, for an invention for—"Improvements in circular knives and saws." *Letters Patent sealed.*

CAPSTICK. 30th June 1858.

1473. WILLIAM CAPSTICK, of Liverpool, in the County of Lancaster, Wheelwright, for an invention for—"Improvements in wheels for carts or vehicles to run on common roads." *Provisional protection only.*

PETRIE. 30th June 1858.

1474. JOHN PETRIE, the younger, of Rochdale, in the County of Lancaster, Ironmonger, for an invention for—"Improvements in machinery or apparatus for drying warps of yarn or thread and woven fabrics." *Letters Patent sealed.*

PEARCE. 1st July 1858.

1475. HENRY GEORGE PEARCE, of Liverpool, in the County of Lancaster, Master Mariner, for an invention for—"Improvements in reefing the sails of navigable vessels." *Provisional protection only.*

WHITELEY. 1st July 1858.

1476. THOMAS WHITELEY, of Staniland, in the Parish of Halifax, in the County of York, Paper and Millboard Manufacturer, for an invention for—"Improvements in the manufacture of millboard, and in machinery or apparatus for cutting millboard and paper." *Letters Patent sealed.*

CLARK. 1st July 1858.

1477. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in gridirons."—*A communication from Messieurs Poirot, Bouilliant and Co., residing at Paris.* *Letters Patent sealed.*

KINGSLEY. 1st July 1858.

1478. JEFFRIES KINGSLEY, of 52, Great Coram Street, in the County of Middlesex, Lieutenant on Half Pay, Her Majesty's 3rd Regiment of Dragoons, for an invention for—"Improved mechanical arrangements applicable to preventing the sudden bursting of steam-boilers." *Provisional protection only.*

BLINKHORN. 1st July 1858.

1479. THOMAS BLINKHORN, of Spalding, in the County of Lincoln, Engineer and Millwright, for an invention for—"Improvements in the construction of steam-boilers and engines." *Letters Patent sealed.*

RIDDELL. 1st July 1858.

1480. THOMAS RIDDELL, of Carracon Terrace, Old Ford, Bow, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of omnibusses, and in breaks to be applied to such and other wheel carriages." *Letters Patent sealed.*

WIMSHURST. 1st July 1858.

1481. HENRY WILLIAM WIMSHURST, of 7, Wilmot Road, Dalston, in the County of Middlesex, Gentleman, for an invention for—"Improvements in manufacturing sheet metal." *Letters Patent sealed.*

SMITH. 2nd July 1858.

1482. WILLIAM THOMAS SMITH, of No. 21, Lincoln's Inn Fields, in the County of Middlesex, Surveyor and Civil Engineer, for an invention for—"Improvements in and the combination of certain machinery or apparatus for winnowing, washing, sifting, and separating grain, ballast, sand, shot, minerals, and other materials." *Letters Patent sealed.*

VASSEROT. 2nd July 1858.

1483. CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved wire-conductor for electro-magnetic machines."—*A communication from Louis Barthelemy Susanne Charrier de Sainneville, of La Fréta, near Lyons, in the Empire of France.* *Provisional protection only.*

MORRIS. 2nd July 1858.

1484. JOHN MORRIS, Manager at the Broughton Copper Works, Salford, in the County of Lancaster, for an invention for—"An improved construction or improvements in the construction of copper rollers or cylinders for printing fabrics." *Provisional protection only.*

RICHMOND. CHANDLER. 2nd July 1858.

1485. FRANCIS RICHMOND, and HENRY CHANDLER, both of Salford, in the County of Lancaster, Agricultural Implement Makers, for an invention for—"Improvements in machines for cutting hay, straw, and other vegetable substances."
Letters Patent sealed.

LORD. 2nd July 1858.

1486. EDWARD LORD, of Todmorden, in the County of York, Machine Maker, for an invention for—"Improvements in looms for weaving, parts of which are applicable to other machines, and in machinery for making the crank shafts of looms and other machines." *Letters Patent sealed.*

HODGE. SPENCER. 2nd July 1858.

1487. PAUL RAPSEY HODGE, of No. 16, Chalcot Crescent, Regent's Park, in the County of Middlesex, Civil Engineer, and GEORGE SPENCER, of No. 6, Cannon Street West, London, Civil Engineer, for an invention for—"Improvements in the means of preventing or regulating the recoil of springs used in railway engines, carriages, and station buffers." *Letters Patent sealed.*

NEWTON. 2nd July 1858.

1488. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improvements in lamps."—*A communication.* *Letters Patent sealed.*

SELLERS. 2nd July 1858.

1489. WILLIAM SELLERS, of Philadelphia, in the State of Pennsylvania, United States of America, for an invention for—"Improvements in machinery for turning metal shafting or bars, and cylindrical rings, and cutting screws."
Letters Patent sealed.

MELLODEW. DUXBURY. LAYFIELD. 2nd July 1858.

1490. THOMAS MELLODEW, of Oldham, in the County of Lancaster, Spinner, JOHN DUXBURY, of the same place, Mechanic, and EDMUND LAYFIELD, of the same place, Manager, for an invention for—"Improvements in machinery or apparatus for spinning and doubling or twining cotton and other fibrous materials."
Letters Patent sealed.

CLARK. 2nd July 1858.

1491. JOSIAH LATIMER CLARK, of Adelaide Road, Haverstock Hill, in the County of Middlesex, for an invention for—"An improvement in electric telegraph cables or ropes." *Letters Patent sealed.*

LE SOUÈF. 2nd July 1858.

1492. DUDLEY LE SOUÈF, of Twickenham, for an invention for—"An improved shaft bearer or tug, and an improved manner of affixing the same to the harness."—*A communication from Charles Girardet, of and now residing at Vienna.*
Letters Patent sealed.

SCOTT. 3rd July 1858.

1493. THOMAS SCOTT, of Drummond Street, Euston Square, in the County of Middlesex, for an invention for—"Improvements in dressing, separating, and cleaning seeds, and in apparatus for those purposes." *Letters Patent sealed.*

BILLING. 3rd July 1858.

1494. JOHN BILLING, of Abingdon Street, Westminster, in the County of Middlesex, Architect, for an invention for—"Improvements in fireplaces or stoves."
Letters Patent sealed.

LEES. JAQUES. 3rd July 1858.

1495. SYLVESTER LEES, of Bury, in the County of Lancaster, Engineer, and JOHN JAQUES, of Preston, in the same County, Engineer, for an invention for—"Improvements in the means for generating steam and economizing fuel."
Letters Patent sealed.

BUHRING. 3rd July 1858.

1496. CARL BUHRING, of Great College Street, Camden Town, in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparatus for filtering liquids and other fluids containing impurities."
Provisional protection only.

RESTELL. 3rd July 1858.

1497. THOMAS RESTELL, of New Kent Road, in the County of Surrey, Engineer, for an invention for—"Improvements in breech-loading fire-arms and ordnance, and in ammunition to be used in breech-loading arms." *Letters Patent sealed.*

BOND. STANDING. 3rd July 1858.

1498. WILLIAM BOND, of Preston, in the County of Lancaster, Engineer, and THOMAS STANDING, of the same place, Ironmonger, for an invention for—"Improvements in apparatus for churning, mixing, and stirring cream, milk, and other liquids." *Letters Patent sealed.*

CHISHOLM. 3rd July 1858.

1499. JOHN CHISHOLM, of Bermondsey, in the County of Surrey, Manufacturing Chemist, for an invention for—"A method of disinfecting and deodorizing or treating sewage and other matters, and structures, and places."
Letters Patent sealed.

JENNINGS. CULPIN. 3rd July 1858.

1500. JOSIAH GEORGE JENNINGS, of Holland Street, Blackfriars, and THOMAS CULPIN, of 25, Royal Hill, Greenwich, for an invention for—"Improvements in apparatus for measuring, regulating, and preventing waste when supplying fluids." *Letters Patent sealed.*

SARONY. 3rd July 1858.

1501. OLIVER SARONY, of Scarborough, in the County of York, Photographic Artist, for an invention for—"Improvements in treating and colouring photographic pictures." *Letters Patent sealed.*

JENNINGS. 3rd July 1858.

1502. JOSIAH GEORGE JENNINGS, of Holland Street, Blackfriars, for an invention for—"Improvements in air bricks and in bricks for bonding hollow walls." *Letters Patent sealed.*

NEWTON. 3rd July 1858.

1503. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in soldering irons."—*A communication.* *Letters Patent sealed.*

JENNINGS. LOVEGROVE. 3rd July 1858.

1504. JOSIAH GEORGE JENNINGS, of Holland Street, Blackfriars, and JAMES LOVEGROVE, of Victoria Park Road, for an invention for—"Improvements in water-closets, and in apparatus used in ventilating house drains or sewers." *Letters Patent sealed.*

HAEFFELY. 3rd July 1858.

1505. EDWARD HAEFFELY, of Kearsley, in the County of Lancaster, Chemist, for an invention for—"Improvements in recovering oxides of manganese from products arising out of the manufacture of chlorine, and in raising commercial manganese to higher oxides." *Letters Patent sealed.*

SIMONS. 5th July 1858.

1506. EDWARD SIMONS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in castors for furniture." *Letters Patent sealed.*

BROOMAN. 5th July 1858.

1507. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in the manufacture of cast steel."—*A communication.* *Letters Patent sealed.*

NEWBERY. 5th July 1858.

1508. GEORGE JOHN NEWBERY, of Straitsmouth, Greenwich, in the County of Kent, Artist, for an invention for—"Improvements in the manufacture or production of coverings for floors, applicable also to the manufacture of table mats and other articles or coverings." *Letters Patent sealed.*

HODGKINSON. 5th July 1858.

1509. JOHN HODGKINSON, of Atherton, in the County of Lancaster, Baker, for an invention for—"Certain improved machinery or apparatus for kneading dough in the manufacture of bread." *Letters Patent sealed.*

WOOLNER. 5th July 1858.

1510. THOMAS WOOLNER, of Blue Pits, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in apparatus for feeding steam-boilers with water." *Letters Patent sealed.*

NELSON. 5th July 1858.

1511. MORTIMER NELSON, of the City and State of New York, United States of America, for an invention for—"Improvements in propellers for vessels." *Letters Patent sealed.*

GREENWOOD. 5th July 1858.

1512. JAMES GREENWOOD, of South Audley Street, Gentleman, for an invention for—"Improvements in marine propellers." *Letters Patent sealed.*

DAVIES. 6th July 1858.

1513. JOHN TAYLOR DAVIES, of Liverpool, in the County of Lancaster, Provision Merchant, for an invention for—"An improved lock."—*A communication from Stuart Perry, of Newport, in the State of New York, U. S. A.* *Provisional protection only.*

DODD. PHILLIPS. 6th July 1858.

1514. JOHN DODD, of Ruabon, in the County of Denbigh, Engineer, and THOMAS PHILLIPS, of the same place, Painter, for an invention for—"Improvements in the slide valves of steam-engines." *Letters Patent sealed.*

HUGHES. 6th July 1858.

1515. HESKETH HUGHES, of Homerton, in the County of Middlesex, Engineer, for an invention for—"Improvements in guaffering and crimping machines, parts of which are applicable to the manufacture of continuous belts and shutters." *Letters Patent sealed.*

NEWTON. 6th July 1858.

1516. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements applicable to roller blinds."—*A communication.* *Letters Patent sealed.*

DAVIS. EVANS. 6th July 1858.

1517. JAMES DAVIS, Iron Master, and THOMAS EVANS, Engine Fitter, both of Ulverstone, in the County of Lancaster, for an invention for—"Improvements in engines to be actuated by steam, air, or gases." *Letters Patent sealed.*

BUCHANAN. 6th July 1858.

1518. JOHN BUCHANAN, of Port Glasgow, in the County of Renfrew, North Britain, Gentleman, for an invention for—"Improvements in propelling ships, vessels, and boats." *Letters Patent sealed.*

SMITH. 7th July 1858.

1519. WILLIAM ALLEN SMITH, Engineer, of Belper, in the County of Derby, for an invention for—"Improvements in machines for making bricks, tiles, or pipes, of clay." *Letters Patent sealed.*

SCHILLER. 7th July 1858.

1520. HENRY CARL SCHILLER, of London, in the County of Middlesex, for an invention for—"Certain improved apparatus for laying down and recovering submarine telegraphic cables." *Letters Patent sealed.*

FLORANCE. 7th July 1858.

1521. JEAN JOSEPH FLORANCE, of Paris, France, Merchant, for an invention for —"Improvements in reels or spooling wheels." *Provisional protection only.*

MERCIER. 7th July 1858.

1522. PIERRE MERCIER, Manufacturer, of Paris, in the French Empire, for an invention for—"Improvements in the treatment of peat, and in preparing the same for fuel." *Provisional protection only.*

HOLLAND. POTTS. 7th July 1858.

1523. JOHN HOLLAND, Japanner, of Gibb Street, Deritend, Birmingham, in the County of Warwick, and FERDINAND POTTS, of the firm of F. Potts & Co., Patent Tube Manufacturers, of Moore's Row, Deritend, Birmingham, as aforesaid, for an invention for—"Certain improvements in ornamenting metallic bedsteads, and which said improvements are also applicable to the ornamenting of other metallic surfaces." *Letters Patent sealed.*

CLISSOLD. 7th July 1858.

1524. WILLIAM CLISSOLD, of Dudbridge, in the County of Gloucester, Engineer, for an invention for—"Improved machinery for cutting or rasping dyewoods." *Letters Patent sealed.*

JAMES. 7th July 1858.

1525. THOMAS JAMES, of Saint George's in the East, in the County of Middlesex, Engineer, for an invention for—"Improvements in treating sewage matter." *Provisional protection only.*

CHICK. 7th July 1858.

1526. GEORGE AUGUSTUS BREILLAT CHICK, of 56, Milk Street, Leek Lane, and Callow Hill Street, in the Parish of St. Paul, in the City and County of Bristol, for an invention for—"An improvement in the preparation of graphite or plumbago or black lead." *Letters Patent sealed.*

BOUSFIELD. 7th July 1858.

1527. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in apparatus for ironing linen and other fabrics."—*A communication.* *Provisional protection only.*

WESTON. 7th July 1858.

1528. JOSEPH DODGE WESTON, of Stour Valley Iron Works, West Bromwich, in the County of Stafford, and of the City and County of Bristol, Manufacturer, for an invention for—"Improvements in rolling iron for the manufacture of bolts and pins." *Letters Patent sealed.*

SLEIGH. 7th July 1858.

1529. ADDERLEY WILLCOCKS SLEIGH, of Mansell Villas, Wimbledon Park, Knight of the Ancient and Most Noble Order of the Tower, and Sword Captain late Royal Navy and Her Majesty's Land Transport Corps, for an invention for —"Improvements in the construction of floating sea barriers or artificial beaches, breakwaters, and batteries." *Letters Patent sealed and specification filed, by order.*

STANFORD. 8th July 1858.

1530. JOHN FORDHAM STANFORD, of Howard Street, in the Parish of Saint Clement Danes, in the County of Middlesex, Engineer, for an invention for— "A new and improved method of and apparatus for applying heated air in drying corn, hay, and other like articles in the stack or otherwise, and in drying goods, and in heating and drying rooms and buildings." *Provisional protection only.*

MARLAND. WIDDALL. 8th July 1858.

1531. JOHN MARLAND, of Glodwick, near Oldham, in the County of Lancaster, and JAMES WIDDALL, of Abbey Hill, in the said County, for an invention for— "An improved self-acting hook or holder to prevent accidents in lifting, hoisting, or winding at coal pits, or other similar purposes." *Letters Patent sealed.*

GIDLOW. 8th July 1858.

1532. HENRY GIDLOW, of Atherton, in the County of Lancaster, Carpenter, for an invention for—"Improvements in breaks for steam-engines." *Letters Patent sealed.*

BOOTH. ASHWORTH. 8th July 1858.

1533. JOHN BILLINGTON BOOTH, of Preston, in the County of Lancaster, and ROBERT ASHWORTH, of Heywood, in the said County, for an invention for—"Improvements in the means of stopping or retarding the progress or velocity of railway carriages." *Provisional protection only.*

DEMOULIN. COTELLE. 8th July 1858.

1534. PIERRE FRANÇOIS DEMOULIN, Chemist, and JOSEPH COTELLE, Manufacturer, of Paris (France), for an invention for—"Improvements in treating the heavy oils obtained from the distillation of coals, schists, and other hydro-carbons." *Letters Patent sealed.*

CHELLINGWORTH. 8th July 1858.

1535. THOMAS TERTIUS CHELLINGWORTH, of West Bromwich, in the County of Stafford, Civil and Mechanical Engineer, for an invention for—"A high pressure steam-engine." *Letters Patent sealed.*

HODGE. 8th July 1858.

1536. PAUL RAPSEY HODGE, of No. 16, Chalcot Crescent, Primrose Hill, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in brewing fermented liquors, and in treating materials used therein for purposes of food." *Letters Patent sealed.*

SMITH. 8th July 1858.

1537. RICHARD SMITH, of the firm of Earl, Smith, and Company, Manufacturers, of Hallamshire Works, Pond Street, Sheffield, in the County of York, for an invention for—"An improved adjustable pipe tongs."—*A communication.* *Letters Patent sealed.*

SAMUELS. 8th July 1858.

1538. SAMUEL SAMUELS, of New York, in the United States of America, Master Mariner, for an invention for—"Improvements in laying submarine telegraphic cables." *Provisional protection only.*

HARRISON. 8th July 1858.

1539. SAMUEL HARRISON, of Stanhope Street, Clare Market, in the County of Middlesex, Smith, for an invention for—"Improvements in ovens." *Letters Patent sealed.*

CRICKMER. 8th July 1858.

1540. RICHARD JEX CRICKMER, of the Borough Road, in the County of Surrey, Civil and Mechanical Engineer, for an invention for—"Improvements in treating the sewage of London and neighborhood." *Provisional protection only.*

FANE. 8th July 1858.

1541. ROBERT GEORGE CECIL FANE, of Upper Brook Street, in the County of Middlesex, Esquire, for an invention for—"Improvements in treating sewage and in apparatuses to be employed therein." *Letters Patent sealed.*

SCOTT. 8th July 1858.

1542. MICHAEL SCOTT, of 3, Stanhope Terrace, Hyde Park Gardens, in the County of Middlesex, for an invention for—"Improvements in constructing breakwaters and other like structures." *Letters Patent sealed.*

COLLIER. 8th July 1858.

1543. GEORGE COLLIER, of Halifax, in the County of York, for an invention for—"Improvements in means or apparatus for the drying of wool and other fibres." *Letters Patent sealed.*

SAMPSON. 8th July 1858.

1544. GEORGE SAMPSON, of Bradford, in the County of York, Finisher, for an invention for—"Improvements in means or apparatus employed in the finishing of woven fabrics." *Provisional protection only.*

SIMONS. 9th July 1858.

1545. WILLIAM SIMONS, of Glasgow, in the County of Lanark, North Britain, Ship Builder, for an invention for—"Improvements in or connected with ships or vessels." *Letters Patent sealed.*

PARSONS. 9th July 1858.

1546. GEORGE PARSONS, Mechanical Engineer and Machine Manufacturer, conducting business at No. 50, High Street, Lambeth, in the County of Surrey, for an invention for—"Improvements in apparatus for the prevention of injury to and the sudden bursting of steam-boilers." *Letters Patent sealed.*

BROADLEY. 9th July 1858.

1547. JAMES BROADLEY, of Saltaire, near Bradford, in the County of York, Overlooker to Messrs. Titus Salt, Sons, & Co., of Saltaire, for an invention for—"Improvements in means or apparatus employed in weaving."—*Letters Patent sealed.*

SANG. RAMMELL. 9th July 1858.

1548. FREDERICK SANG, of 42, Charing Cross, Artist, and THOMAS WEBSTER RAMMELL, of 16, Spring Gardens, both in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the means of conveying letters and parcels from one place to another." *Letters Patent sealed.*

KOTTULA. 9th July 1858.

1549. CONSTANTINE NICOLAUS KOTTULA, of Liverpool, in the County of Lancaster, Soap Manufacturer, for an invention for—"Improvements in the manufacture of manure." *Letters Patent sealed.*

EDWARDS. 9th July 1858.

1550. FREDERIC HOWORTH EDWARDS, of Gateshead-on-Tyne Iron Works, Civil Engineer, for an invention for—"Improvements in pneumatic springs for railway carriages and other purposes." *Provisional protection only.*

ROWAN. 9th July 1858.

1551. JOHN MARTIN ROWAN, of Glasgow, in the County of Lanark, Engineer, for an invention for—"Improvements in manufacturing wrought-iron wheels and bosses or centres, and in the mode of and furnaces for heating the same during such manufacture."—*A communication.* *Letters Patent sealed.*

NEWTON. 9th July 1858.

1552. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of umbrellas and parasols."—*A communication.*
Letters Patent sealed.

PORECKY. 10th July 1858.

1553. ALEXANDER PORECKY, of 7, York Street North, Hackney Road, in the County of Middlesex, for an invention for—"Improvements in the manufacture of certain articles of whalebone, horn, tortoiseshell, and other corneous matters, or the artificial imitations thereof." *Provisional protection only.*

WAIN. 10th July 1858.

1554. GEORGE HENRY WAIN, of Liverpool, in the County of Lancaster, Block Maker, for an invention for—"Improvements in reefing and furling sails."
Letters Patent sealed.

LANGSHAW. 10th July 1858.

1555. WILLIAM LANGSHAW, of Bolton, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in machinery or apparatus for weaving fancy looped or knotted fabrics." *Letters Patent sealed.*

WATSON. FADEUILHE. 10th July 1858.

1556. JOHN FORBES WATSON, of 3, Lonsdale Villas, Bayswater, in the County of Middlesex, and VALENTIN BERNARD FADEUILHE, of Newington Crescent, in the County of Surrey, for an invention for—"Improvements in the preparation of cocoa and chocolate, and also of nutritive compounds from the seeds of the plants called Soja Hispida and Cicer Arietinum."
Letters Patent sealed; no specification filed.

BURRELL. 10th July 1858.

1557. PERCY BURRELL, of No. 2, Middle Scotland Yard, for an invention for—"Improvements in ventilating sewers and other receptacles of sewage."
Provisional protection only.

NORTHEN. 12th July 1858.

1558. WILLIAM NORTHEN, of 14, Vauxhall Walk, Lambeth, in the County of Surrey, Potter, for an invention for—"The application of stoneware or earthenware coloured or plain to improved and original designs."
Complete specification; Letters Patent sealed.

LOACH. COX. 12th July 1858.

1559. JOHN LOACH, Japanner, of Birmingham, in the County of Warwick, and JOHN COX, Electro-Plater, of Birmingham, aforesaid, for an invention for—"Certain improvements in ornamenting glass with perforated metallic and other plates."
Letters Patent sealed.

MACINTOSH. 12th July 1858.

1560. JOHN MACINTOSH, of the City of Aberdeen, North Britain, Engineer, for an invention for—"Improvements in apparatus for the manufacture of articles of confectionery." *Provisional protection only.*

MENNONS. 12th July 1858.

1561. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for "An apparatus for stopping leaks in ships."—*A communication.*
Provisional protection only.

MENNONS. 12th July 1858.

1562. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"Improvements in the construction of fire-engines and similar apparatus."—*A communication.* *Complete specification; Letters Patent sealed.*

BROOMAN. 12th July 1858.

1563. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Certain new or improved machinery for the manufacture of wire heddles."—*A communication.*
Letters Patent sealed.

WITTON. 12th July 1858.

1564. DAVID SAMUEL WITTON, of 30, Tibberton Square, Lower Road, Islington, in the County of Middlesex, for an invention for—"Improvements in pianofortes."
Provisional protection only.

DEFRIES. 12th July 1858.

1565. NATHAN DEFRIES, of No. 5, Fitzroy Square, in the County of Middlesex, Consulting Gas Engineer, for an invention for—"Improvements in apparatus for measuring gas." *Letters Patent sealed.*

TAYLOR. 12th July 1858.

1566. JOHN TAYLOR, of Roupell Park, Streatham Hill, in the County of Surrey, for an invention for—"Improvements in the manufacture of blocks for the construction of sewers, drains, and arches." *Provisional protection only.*

EARNSHAW. 12th July 1858.

1567. THOMAS EARNSHAW, of Cambridge Terrace, Thornton Heath, Croydon, in the County of Surrey, for an invention for—"Improvements in the manufacture of night lights." *Letters Patent sealed.*

CHARD. 13th July 1858.

1568. EBENEZER CHARD, of Islington, in the County of Middlesex, Pianoforte Manufacturer, for an invention for—"Improvements in pianofortes." *Provisional protection only.*

WEBSTER. 13th July 1858.

1569. JAMES WEBSTER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"An improved manufacture of certain kinds of metallic ingots." *Provisional protection only.*

FUSSELL. 13th July 1858.

1570. JAMES ALFRED FUSSELL, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved method of ornamenting chandeliers, pendants, and brackets for gas and other lamps, which method of ornamenting is also applicable to curtain bands." *Letters Patent sealed.*

TRAVIS. SUGDEN. SUGDEN. 13th July 1858.

1571. JOHN TRAVIS, Gentleman, THOMAS SUGDEN, and FREDERICK SUGDEN, Machinists, of Oldham, in the County of Lancaster, for an invention for—"Certain improvements in lubricating the valves and pistons of steam-engines." *Provisional protection only.*

EDWARDS. NEWEY. 13th July 1858.

1572. JOHN EDWARDS, of 77, Aldermanbury, London, and THOMAS NEWEY, of 70, Navigation Street, Birmingham, for an invention for—"Improvements in the manufacture of blind furniture." *Letters Patent sealed.*

FIELD. 13th July 1858.

1573. JAMES JOHN FIELD, of Paddington, in the County of Middlesex, Chemist, for an invention for—"A new method of supporting and carrying telegraph wires, ropes, and cables." *Letters Patent sealed.*

BUCHANAN. 13th July 1858.

1574. GEORGE BUCHANAN, of 29, Bucklersbury, London, for an invention for —"Improvements in sugar cane mills." *Letters Patent sealed.*

SHANKS. 13th July 1858.

1575. ANDREW SHANKS, Engineer, No. 6, Robert Street, Adelphi, Westminster, for an invention for—"Improvements in machinery for planing, slotting, and shaping metals." *Provisional protection only.*

BEADON. 13th July 1858.

1576. WILLIAM BEADON, of Otterhead, Honiton, in the County of Devon, for an invention for—"Improvements in the manufacture of bags for corn and other articles. and sails for ships." *Provisional protection only.*

WILSON. HORWOOD. 13th July 1858.

1577. ROBERT WILSON, of No. 9, and ALBERT HORWOOD, of No. 8, Salisbury Mews, Great Quebec Street, Marylebone Road, in the County of Middlesex, for an invention for—"An improved pipe joint." *Provisional protection only.*

MAUMENÉ. JAUNAY. 14th July 1858.

1578. EDME JULES MAUMENÉ, Professor of Chemistry, and LOUIS BRUNET JAUNAY, Wine Merchant, at Reims, Departement of Marne, in France, for an invention for—"An improved method of and apparatus for the production of sparkling wines." *Provisional protection only.*

DE POORTER. 14th July 1858.

1579. CHARLES DE POORTER, of Brussels, in the Kingdom of Belgium, for an invention for—"Improvements in hand or power looms." *Provisional protection only.*

WOODCOCK. 14th July 1858.

1580. WILLIAM WOODCOCK, of No. 36, Great George Street, Westminster, in the County of Middlesex, Engineer, for an invention for—"Certain improvements in apparatus for warming air." *Letters Patent sealed.*

BURNS. REA. 14th July 1858.

1581. ROBERT BURNS, and JOSHUA REA, both of Liverpool, in the County Palatine of Lancaster, Engineers, for an invention for—"Improvements in machinery for grinding bones and other hard substances." *Letters Patent sealed.*

COWAN. 14th July 1858.

1582. JOSEPH COWAN, of Liverpool, in the County of Lancaster, Cabinet Maker, for an invention for—"An improved screw nail." *Provisional protection only.*

CHAPUSOT. AVRIL. 14th July 1858.

1583. FRANÇOIS CHAPUSOT, of Turin (Sardinia), Gentleman, and VICTOR AVRIL, of Paris (France), Civil Engineer, for an invention for—"Improvements in producing a more or less perfect vacuum, and applying the same to industrial purposes." *Provisional protection only.*

JONES. 14th July 1858.

1584. JAMES JONES, of the City Water Works, Oxford, Engineer, for an invention for—"Improvements in meters for measuring liquids." *Letters Patent sealed.*

OWEN. 14th July 1858.

1585. EDWARD OWEN, of Blackheath, in the County of Kent, Chemist, for an invention for—"Improvements in distilling." *Letters Patent sealed.*

WHEELER. 14th July 1858.

1586. THOMAS WHEELER, of the Albion Iron Works, in the City of Oxford, Engineer, for an invention for—"An improved combination of machinery for cutting, slicing, grating, and pulping turnips, mangold wurzel, and other roots." *Provisional protection only.*

MACLEAN. 14th July 1858.

1587. JOHN MACLEAN, of Edinburgh, in the County of Midlothian, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for laying or submerging telegraph cables in water." *Provisional protection only.*

WHEELER. 14th July 1858.

1588. THOMAS WHEELER, of the Albion Iron Works, in the City of Oxford, Engineer, for an invention for—"Improvements in washing, wringing, and mangling machines." *Letters Patent sealed.*

WIMSHURST. 14th July 1858.

1589. HENRY WILLIAM WIMSHURST, of Wilmot Road, Dalston, in the County of Middlesex, Gentleman, for an invention for—"An improvement in stove grates." *Provisional protection only.*

RHEINAUER. 14th July 1858.

1590. JOSEPH RHEINAUER, of Offenburg, Grand Duchy of Baden, for an invention for—"Improvements in the bearings for axles and shafts, in order to lubricate and exclude dust from such bearings."—*A communication.* *Letters Patent sealed.*

FOWLER. 14th July 1858.

1591. JOHN FOWLER, Junior, of 28, Cornhill, in the City of London, Engineer, for an invention for—"Improvements in apparatus used when ploughing, tilling, or cultivating land by steam power." *Letters Patent sealed.*

WILLIAMS. 15th July 1858.

1592. CHARLES WYE WILLIAMS, of Liverpool, in the County Palatine of Lancaster, Gentleman, for an invention for—"Improvements in locomotive and other boilers for giving them increased power in generating steam." *Letters Patent sealed.*

BRAZIER. 15th July 1858.

1593. RICHARD BRAZIER, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—"Improvements in repeating fire-arms." *Letters Patent sealed.*

ASHMAN. 15th July 1858.

1594. JAMES ASHMAN, of Oxford Street, London, for an invention for—"Improvements in artificial legs and arms." *Provisional protection* NOT *granted.*

ASTON. 15th July 1858.

1595. CHRISTOPHER PENRHYN ASTON, of Cross Street, in the County of Middlesex, Gun Maker, for an invention for—"Improvements in breech-loading arms." *Letters Patent sealed.*

GILBEE. 15th July 1858.

1596. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Improvements in the mode of covering cotton, woollen, and other thread with silk, and in the apparatus connected therewith."—*A communication.* *Provisional protection only.*

BEVAN. 15th July 1858.

1597. HENRY BEVAN, of Shrewsbury, in the County of Salop, Accountant, for an invention for—"A new or improved machine for effecting or facilitating arithmetical operations." *Provisional protection only.*

BASTABLE. 15th July 1858.

1598. ALFRED HOPE JOHNSON BASTABLE, of Belgrave Works, Ranelagh Road, Pimlico, in the County of Middlesex, for an invention for—"Improvements in apparatus employed in the production of light."—*A communication.* *Provisional protection only.*

BARTLETT. 15th July 1858.

1599. THOMAS BARTLETT, of King's Road, Bedford Row, in the County of Middlesex, M.D., for an invention for—"Improvements in stoves, fireplaces, and furnaces." *Letters Patent sealed.*

FAIRBAIRN. 15th July 1858.

1600. PETER FAIRBAIRN, of Leeds, in the County of York, Machinist, for an invention for—"An improvement in lathes."—*A communication.* *Letters Patent sealed; no specification filed.*

NEWTON. 15th July 1858.

1601. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of giving alarm in cases of fire in houses, ships, or other buildings."—*A communication from François Tovo, of Turin, in the Kingdom of Sardinia.*

Provisional protection only.

BETTS. 15th July 1858.

1602. WILLIAM BETTS, of Wharf Road, City Road, in the County of Middlesex, Capsule Manufacturer, for an invention for—"Improvements in the manufacture of capsules, and in the apparatus to be employed therein." *Provisional protection only.*

LEIGH. 16th July 1858.

1603. THOMAS LEIGH, of the City of Manchester, in the County of Lancaster, Commission Agent, for an invention for—"Improvement in machinery or apparatus for sizing warps." *Letters Patent sealed.*

PRIESTLEY. 16th July 1858.

1604. FREDERICK PRIESTLEY, of No. 15, Berners Street, in the County of Middlesex, Pianoforte Maker, for an invention for—"Improvements in condensing steam-engines." *Provisional protection only.*

DE BERGUE. 16th July 1858.

1605. CHARLES DE BERGUE, of No. 9, Dowgate Hill, in the City of London, and of Strangeways Iron Works, Manchester, in the County of Lancashire, Engineer, for an invention for—"Improvements in electric telegraph cables for submarine purposes, and in the machinery for manufacturing such cables, and also in the machinery to be used in paying such cables out of ships at sea." *Letters Patent sealed.*

VOSS. 16th July 1858.

1606. MARCUS VOSS, of 12, Billiter Square, City of London, for an invention for—"Safely submerging ocean telegraph cables and other heavy bodies in rivers, lakes, and seas, by means of inflated buoys and connecting gear."

Provisional protection only.

ARKELL. MELHADO. 16th July 1858.

1607. PETER ARKELL, of North Woolwich, in the County of Kent, Engineer, and ALFRED MELHADO, of Queen's Gardens, Bayswater, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the submerging of telegraph cables." *Letters Patent sealed.*

PRICE. 16th July 1858.

1608. ASTLEY PASTON PRICE, of Margate, in the County of Kent, Chemist, for an invention for—"Improvements in the treatment and smelting of certain ores or compounds of tin, and of tin and of certain alloys thereof." *Letters Patent sealed.*

PUTNAM. 16th July 1858.

1609. CLARK SAMUEL PUTNAM, of the City, County, and State of New York, in the United States of America, for an invention for—"An improvement or improvements in the apparatus for hardening vegetable gums, oils, and other substances susceptible of being hardened by steam." *Letters Patent sealed.*

CHORLEY. 16th July 1858.

1610. THOMAS FEARNCOMBE CHORLEY, of 9, Cottage Place, City Road, in the County of Middlesex, Solicitor, for an invention for—"Improving the form of bankers' cheques and other similar documents, with the view of preventing fraudulent dealings therewith." *Provisional protection only.*

BENNETT. 16th July 1858.

1611. WILLIAM ANTHONY BURLTON BENNETT, of 13, Rue tant perd tant prie, Boulogne, in the Empire of France, for an invention for—"Improvements in military capes or cloaks." *Letters Patent sealed.*

HART. 17th July 1858.

1612. THOMAS HART, of Glasgow, in the County of Lanark, North Britain, Plumber, for an invention for—"Improvements in taps or valves, and in apparatus for regulating the flow of fluids." *Letters Patent sealed.*

SPENCE. 17th July 1858.

1613. JAMES SPENCE, of Liverpool, in the County of Lancashire, Iron Merchant, for an invention for—"An improvement in the manufacture of tin plates and terne or leaded plates." *Letters Patent sealed and specification filed, by order.*

SMITH. 17th July 1858.

1614. JOSIAH TIMMIS SMITH, of Dudley, in the County of Worcester, Iron Master, for an invention for—"A new or improved manufacture of coke."

Provisional protection only.

WILDES. 17th July 1858.

1615. WILLIAM WILDES, of Maidstone, in the County of Kent, Paper Maker, for an invention for—"An improved arrangement or arrangements of machinery for reducing vegetable matter to pulp." *Letters Patent sealed.*

BROOMAN. 17th July 1858.

1616. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in apparatuses for the reception of fecal and sewage matters, and in the treatment of fecal matters."—*A communication.*

Provisional protection only.

PIDDING. 17th July 1858.

1617. WILLIAM PIDDING, of Southwark Bridge Road, Southwark, in the County of Surrey, Gentleman, for an invention for—"Improvements in securing and forming envelopes." *Provisional protection only.*

LLOYD. EDWARDS. 17th July 1858.

1618. WILLIAM ALFORD LLOYD, of Portland Road, in the County of Middlesex, Tank Manufacturer, and EDWARD EDWARDS, of Menai Cottage, in the County of Anglesea, Gentleman, for an invention for—"Improvements in aquaria tanks and similar receptacles for aquatic animals and plants." *Letters Patent sealed.*

DESMARES. 19th July 1858.

1619. JULES JUHEL DESMARES, Manufacturer, at Vire, Departement of the Calvados, in the Empire of France, for an invention for—"A new process for oiling wools." *Provisional protection only.*

VASSEROT. 19th July 1858.

1620. CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved artificial manure."—*A communication from S. A. Grillon, of Champhaut, Orne, in the Empire of France.* *Provisional protection only.*

BRAY. 19th July 1858.

1621. CHARLES BRAY, of 14, Alfred Terrace, Queen's Road, Bayswater, in the County of Middlesex, for an invention for—"Improvements in ice safes." *Provisional protection only.*

SMITH. 19th July 1858.

1622. HENRY SMITH, of Brierley Hill Iron Works, near Dudley, in the County of Worcester, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of harrows." *Letters Patent sealed.*

REEVES. 19th July 1858.

1623. CHARLES REEVES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in repeating fire-arms." *Letters Patent sealed.*

GREENWOOD. BATLEY. SALT. 19th July 1858.

1624. THOMAS GREENWOOD, and JOHN BATLEY, of Leeds, in the County of York, Machine Makers, and JOHN SALT, of the same place, Silk Spinner, for an invention for—"Improved machinery for preparing silk to be spun." *Letters Patent sealed.*

WILSON. 19th July 1858.

1625. JOSEPH WILLIAM WILSON, of Duke Street, Adelphi, in the City of Westminster, Civil Engineer, for an invention for—"An improved preparation of materials to be used for roofs and other parts of buildings, and for various purposes for which wood is now generally employed." *Provisional protection only.*

TASKER. 19th July 1858.

1626. WILLIAM TASKER, the younger, of the firm of William Tasker and Sons, of Waterloo Iron Works, near Andover, in the County of Hants, Engineers, for an invention for—"Improvements in combined thrashing-machines." *Letters Patent sealed.*

CHORLEY. 19th July 1858.

1627. THOMAS FEARNCOMBE CHORLEY, of 9, Cottage Place, City Road, in the County of Middlesex, Solicitor, for an invention for—"Improvements in the form of bankers' cheques and other similar documents, with the view of preventing fraudulent dealings therewith." *Provisional protection only.*

HERAPATH. 19th July 1858.

1628. WILLIAM HERAPATH, of the City of Bristol, Analytical Chemist, for an invention for—"An improvement in the manufacture and treatment of paper, with the view to the prevention of forgery." *Letters Patent sealed.*

LAMBERT. 19th July 1858.

1629. CHARLES LAMBERT, of Sunk Island, in the East Riding of the County of York, Farmer, for an invention for—"Improvements in collars for horses and other draught animals." *Letters Patent sealed.*

MAW. 19th July 1858.

1630. SOLOMON MAW, of Aldersgate Street, in the City of London, Surgical Instrument Maker, for an invention for—"An improved feeder for administering food." *Letters Patent sealed.*

SCHMITT. 20th July 1858.

1631. JEAN SCHMITT, of Guernsbach, near Radstadt, in the Grand Duchy of Baden, and of 44, Greek Street, Soho Square, London, Engineer, for an invention for—"Cementing, hardening, and tempering rails for railways and also axles for railway carriage wheels." *Provisional protection only.*

CHADWICK. 20th July 1858.

1632. JAMES CHADWICK, of Castleton Print Works, near Rochdale, in the County of Lancaster, Manager, for an invention for—"Improvements in the application of certain woven fabrics to printing purposes." *Letters Patent sealed.*

SHAND. 20th July 1858.

1633. JAMES SHAND, of the firm of Shand and Mason, of Blackfriars' Road, in the County of Surrey, Fire-engine Manufacturers, for an invention for—"Improvements in fire-engines and pumps." *Letters Patent sealed.*

BAILEY. 20th July 1858.

1634. THOMAS BAILEY, of New Orleans, United States, and of 17, Russell Street, Birmingham, in the County of Warwick, Gun Manufacturer, for an invention for—"Improvements in repeating fire-arms." *Letters Patent sealed.*

HILL. 20th July 1858.

1635. JOHN CARTWRIGHT HILL, of Kentish Town, in the County of Middlesex, for an invention for—"Improvements in making joints for connecting pipes and other articles by means of lead or other soft metal." *Letters Patent sealed.*

CLARKE. 20th July 1858.

1636. REUBEN CLARKE, of Cwmbran, near Newport (Mechanic), in the County of Monmouth, for an invention for—"Improvements in windows, window-blinds, and shutters." *Letters Patent sealed.*

DOLEY. BIGLAND. WORRALL. 20th July 1858.

1637. CHARLES DOLEY, of Birmingham, in the County of Warwick, Manufacturer, and EDWIN BIGLAND, of Smethwick, in the County of Stafford, Designer and Glass Painter, and THOMAS HENRY WORRALL, of Smethwick, aforesaid, Lithographer, for an invention for—"Improvements in ornamenting metallic and non-metallic surfaces." *Letters Patent sealed.*

WHEATLEY. 20th July 1858.

1638. GEORGE WHEATLEY, of Bethnal Green Road, in the County of Middlesex, Stick Maker, for an invention for—"An improvement in the ornamenting of sticks." *Provisional protection only.*

BROOMAN. 20th July 1858.

1639. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in moveable apparatuses for receiving fecal and sewage matters."—*A communication from G. M. Legé.* *Provisional protection only.*

NICHOLSON. 20th July 1858.

1640. WILLIAM NEWZAM NICHOLSON, of Newark-on-Trent, Agricultural Implement Maker, for an invention for—"Improvements in crushing mills." *Letters Patent sealed.*

PETRZIWALSKY. 20th July 1858.

1641. JOHANN VON NEPOMUK SIEGMUND PETRZIWALSKY, of Pall Mall, in the County of Middlesex, for an invention for—"Improvements in the manufacture of bread, and in apparatus to be employed therein." *Complete specification; Letters Patent sealed.*

ASQUITH. ASQUITH. 20th July 1858.

1642. WILLIAM ASQUITH, and JOSEPH ASQUITH, both of Leeds, in the County of York, Cloth Dressers, for an invention for—"Ornamenting the surfaces of raised pile fabrics, and in the apparatus employed therein." *Provisional protection only.*

HARDON. 21st July 1858.

1643. EDWIN HARDON, of Stockport, in the County of Chester, Manufacturer, for an invention for—"An improved manufacture of woven fabric for covering umbrellas and parasols." *Letters Patent sealed.*

WILSON. 21st July 1858.

1644. JOHN WILLIAM WILSON, of Barnsley, in the County of York, Timber Merchant and Bobbin Manufacturer, for an invention for—"Certain improvements in machinery or apparatus for turning and cutting wood and other substances." *Letters Patent sealed.*

MATLEY. 21st July 1858.

1645. MATTHEW MATLEY, of Ashton-under-Lyne, in the County of Lancaster, Engineer, for an invention for—"Improvements applicable to steam-boilers, for consuming smoke and economizing fuel in the generation of steam." *Letters Patent sealed.*

PIATTI. 21st July 1858.

1646. THOMAS PIATTI, of Paris, France, Gentleman, for an invention for—"An improved propeller." *Letters Patent sealed.*

CUNQ. 21st July 1858.

1647. LEON CUNQ, of Bordeaux (France), for an invention for—"Improvements in calculating-machines." *Provisional protection only.*

ALLNUTT. 21st July 1858.

1648. HENRY ALLNUTT, of the Estates' Gazette Office, 77, Fleet Street, in the City of London, Civil Engineer, for an invention for—"A vehicle for lamplighters." *Provisional protection only.*

GILES. 21st July 1858.

1649. JOHN WHEATLEY GILES, of St. Martin's-le-Grand, in the County of Middlesex, for an invention for—"Improvements in locomotive or traction engines." *Letters Patent sealed.*

MEACOCK. 21st July 1858.

1650. JAMES MEACOCK, of Snow Hill, in the City of London, Gas Meter Maker, for an invention for—"Improvements in wet gas meters."
Provisional protection only.

WARDER. 22nd July 1858.

1651. DAVID WILLIAM WARDER, of 4, Caroline Place, Chelsea, in the County of Middlesex, Draughtsman, for an invention for—"Improvements in the manufacture of beams, girders, ships ribs or frames, and other structures of wrought iron."
Letters Patent sealed.

BLAKE. 22nd July 1858.

1652. BENJAMIN BLAKE, of Eccleston, near Prescot, in the County of Lancaster, Earthenware Manufacturer, for an invention for—"An improved kiln for burning earthenware and other similar articles." *Letters Patent sealed.*

GREEN. 22nd July 1858.

1653. HENRY GREEN, of Liverpool, in the County of Lancaster, Ironmonger, for an invention for—"A new or improved hinge for hanging and closing doors, gates, or windows." *Letters Patent sealed.*

GAMMON. 22nd July 1858.

1654. CHARLES GAMMON, of No. 9, Cloak Lane, in the City of London, Solicitor, for an invention for—"Improvements in the fastening of envelopes and letters."
Letters Patent sealed.

THOMAS. 22nd July 1858.

1655. WILLIAM LYNALL THOMAS, of Union Street, Berkeley Square, in the County of Middlesex, Esquire, for an invention for—"Improvements in ordnance, fire-arms, and apparatus generally in which gunpowder is employed."
Letters Patent sealed.

THIERRY. 22nd July 1858.

1656. JEAN BAPTISTE PIERRE ALFRED THIERRY, Junior, of Paris, in the Empire of France, for an invention for—"Improvements in furnaces."
Letters Patent sealed.

TRIPLER. 22nd July 1858.

1657. ARCHIBALD BROWN TRIPLER, of No. 1, Michael's Grove, Brompton, for an invention for—"Improvements in obtaining products from a species of asphaltum at present found in the Island of Cuba, and called Chapafote." *Letters Patent sealed.*

HIGGINS. WHITWORTH. 22nd July 1858.

1658. HENRY HIGGINS, of Salford, in the County of Lancaster, Machinist, and THOMAS SCHOFIELD WHITWORTH, of the same place, Manager, for an invention for—"Improvements in machinery for spinning and doubling or twining cotton and other fibrous materials." *Letters Patent sealed.*

MARKS. 23rd July 1858.

1659. LEVY JOHNSON MARKS, of Newport, Monmouthshire, Nautical Instrument Maker, for an invention for—"Improvements in compasses."
Letters Patent sealed.

GILBEE. 23rd July 1858.

1660. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"An improved rotary engine."—*A communication.* *Provisional protection only.*

WALKER. 23rd July 1858.

1661. ROBERT PORTER WALKER, of the City and State of New York, United States of America, for an invention for—"Improvements in machinery for hulling and finishing rice and similar grains." *Letters Patent sealed.*

BARBER. 23rd July 1858.

1662. HARDY BARBER, of Leicester, Manufacturer, for an invention for—"Improved machinery for producing knitted fabrics." *Letters Patent sealed.*

BROCKELBANK. 23rd July 1858.

1663. GEORGE BROCKELBANK, of the General Steam Navigation Company, 71, Lombard Street, in the City of London, for an invention for—"Improvements in laying submarine cables for telegraphic purposes." *Provisional protection only.*

PARSONS. 23rd July 1858.

1664. WILLIAM PARSONS, of Pratt Street, Old Lambeth, Manufacturing Engineer, for an invention for—"Improvements in separating the solid matter from sewage waters." *Provisional protection only.*

GIFFARD. 23rd July 1858.

1665. HENRY JACQUES GIFFARD, Mechanician, of Paris, Town in the French Empire, for an invention for—"Improvements in feed apparatus for steam and other boilers, which improvements are also applicable to the raising and forcing of fluids."
Letters Patent sealed.

ATKINSON. 24th July 1858.

1666. CHARLES ATKINSON, of Sheffield, in the County of York, Manufacturer, for an invention for—"A certain improvement in venetian blinds."
Provisional protection only.

SHANLY. 24th July 1858.

1667. MICHAEL SHANLY, of 5, Meards Street, Dean Street, Soho Square, in the County of Middlesex, for an invention for—"A mercurial level to show the height of liquids in inclosed and opaque vessels, vases, and principally for steam-boilers."—*A communication from Edward Legris, of Paris.*

Complete specification; protection for SIX *months only.*

MERRY. 24th July 1858.

1668. WILLIAM MERRY, of No. 9, Park Place Villas, Paddington, London, for an invention for—"Improvements in apparatus for preventing the escape of foul air from area, kitchen, and scullery drains of dwelling-houses, also from street, stable, and slaughter-house drains." *Letters Patent sealed; no specification filed.*

SHANLY. 24th July 1858.

1669. MICHAEL SHANLY, of 5, Meards Street, Dean Street, Soho Square, in the County of Middlesex, for an invention for—"A metallic trimming for intercepting water, air, gas, or steam, round piston rods of whatsoever they may be, the same may be applied to the joints of steam machines."—*A communication from Edward Legris, of Paris.* *Complete specification; protection for* SIX *months only.*

TOWNEND. 24th July 1858.

1670. SQUIRE TOWNEND, of Blossom Street, in the City of York, for an invention for—"Improvements in cranes." *Provisional protection only.*

BELLEVILLE. 24th July 1858.

1671. JULIEN FRANÇOIS BELLEVILLE, of Paris, in the French Empire, Civil Engineer, for an invention for—"An improved smoke consuming apparatus of furnace." *Letters Patent sealed.*

TRAPHAGEN. 24th July 1858.

1672. HELEN CATLIN TRAPHAGEN, of New York, in the United States of America, for an invention for—"Improvements in ladies' skirts."

Provisional protection only.

WICKOFF. 24th July 1858.

1673. HENRY WICKOFF, of Holly Lodge, Kensington Gore, in the County of Middlesex, Esquire, for an invention for—"An improved aperient medicine to be used in the shape of a biscuit, cake, or sweetmeat."—*A communication.*

Provisional protection only.

ADAMSON. 26th July 1858.

1674. DANIEL ADAMSON, of Newton Moor Iron Works, Hyde, in the County of Chester, Engineer, for an invention for—"Improvements in hydraulic apparatus for raising and lowering heavy articles, and in an application of hydraulic power for rivetting metallic structures, as iron ships, boilers, tanks, and similar articles."

Letters Patent sealed.

VASSEROT. 26th July 1858.

1675. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"Improvements in glass roofs, skylights, windows, and other glass structures."—*A communication from Pierre François Rolier Gonsault, of Montargis (Loiret), in the Empire of France.* *Letters Patent sealed.*

SAX. 26th July 1858.

1676. ALPHONSE SAX, of Paris, France, Musical Instrument Maker, for an invention for—"Improvements in wind musical instruments." *Letters Patent sealed.*

COOKE. 26th July 1858.

1677. JAMES COOKE, of Belfast, in the County of Antrim, Ireland, Gas Singer, for an invention for—"Improvements in singeing, treating, or finishing textile fabrics." *Letters Patent sealed.*

HARDIE. 26th July 1858.

1678. JOHN HARDIE, of the Town and County of Stirling, North Britain, Plumber, for an invention for—"Improvements in apparatus for regulating the flow or passage of fluids." *Letters Patent sealed.*

TAYLOR. NIMMO. 26th July 1858.

1679. JAMES TAYLOR, and JOHN NIMMO, both of Glasgow, in the County of Lanark, North Britain, for an invention for—"Improvements in healds, and in machinery or apparatus for making healds." *Letters Patent sealed.*

HARRIS. 26th July 1858.

1680. BENJAMIN TIMOTHY HARRIS, of Brooklyn, in the State of New York, United States of America, for an invention for—"Improvements in registers for indicating the presence or absence and the time of arrival and departure of workmen or employees." *Provisional protection only.*

DE JONGH. 26th July 1858.

1681. CHARLES DE JONGH, of Lautenbach, in the Empire of France, Manufacturer, for an invention for—"An improved system of and machinery for heckling or combing flax, silk, or other fibrous substances." *Letters Patent sealed.*

HALL. 26th July 1858.

1682. THOMAS HALL, of Mildmay Park, Islington, in the County of Middlesex, Bachelor of Arts, for an invention for—"Improved apparatus for indicating a rise of temperature in confined spaces." *Provisional protection only.*

JONES. 26th July 1858.

1683. EDWARD JONES, Gentleman, of Olive House, No. 20, Camden Cottages, Camden Town, in the Parish of St. Pancras, and County of Middlesex, for an invention for—"Effecting a better system of drainage, and the machinery and apparatus necessary for the same, whereby the sewage manure is collected and conveniently exported for use, and the noxious effluvia prevented from contaminating the air of populous cities and towns, and whereby the drains may be more strongly and securely built, by the manufacture of a more suitable and better material."

Letters Patent sealed.

JACKSON. 26th July 1858.

1684. HENRY JACKSON, of 130, Powis Street, Woolwich, in the County of Kent, for an invention for—"Improvements in preparing lubricating matters."

Letters Patent sealed.

HOPE. 26th July 1858.

1685. JOHN HOPE, of the State of Rhode Island, of the United States of America, for an invention for—"A new and useful mechanism or apparatus for supporting and adjusting a graver of a machine for engraving the surface of a calico printer's roller, preparatory to the same being etched." *Letters Patent sealed.*

DAVIES. 26th July 1858.

1686. JOHN DAVIES, Serjeant Major, Royal Military College, Sandhurst, for an invention for—"Improvements in cloaks for military and other purposes."

Provisional protection only.

GODEFROY. 26th July 1858.

1687. PETER AUGUSTIN GODEFROY, of 3, King's Mead Cottages, New North Road, Islington, in the County of Middlesex, Operative Chemist, for an invention for—"Improvements in the cleansing of gutta-percha, and in the more perfect insulation of electric telegraphic wire." *Letters Patent sealed.*

GLOVER. 26th July 1858.

1688. HENRY GLOVER, of New York, United States of America, Mathematical Instrument Maker, for an invention for—"Improvements in instruments for measuring angles and taking altitudes." *Letters Patent sealed; no specification filed.*

ASHTON. 27th July 1858.

1689. HENRY ASHTON, of Bewley Street, Kirkdale, in the County of Lancaster, Locomotive Engine Driver, for an invention for—"Improvements in the furnaces of steam-boilers." *Provisional protection only.*

SCOTT. 27th July 1858.

1690. JOHN SCOTT, of Tain, in the County of Ross, North Britain, Gentleman, for an invention for—"Improvements in pumps, which improvements are also applicable for the propulsion of ships, vessels, and boats." *Letters Patent sealed.*

EMES. 27th July 1858.

1691, JOHN EMES, of 110, Great Russell Street, Bloomsbury, and 123, New Bond Street, Oxford Street, London, both in the County of Middlesex, for an invention for—"A portable folding bedstead. *Letters Patent sealed.*

LINE. 27th July 1858.

1692. THOMAS LINE, of Lower Tower Street, Birmingham, for an invention for—"Improvements in engines for raising beer and other liquids."

Letters Patent sealed.

TAYLOR. 27th July 1858.

1693. ALEXANDER TAYLOR, of No. 1, Wellington Cottages, De Beauvoir Town, Kingsland, for an invention for—"Improvements in pianofortes."

Letters Patent sealed.

KOTTULA. 27th July 1858.

1694. CONSTANTINE NICOLAUS KOTTULA, of Liverpool, in the County of Lancaster, Soap Manufacturer, for an invention for—"Improvements in the manufacture of soap." *Letters Patent sealed.*

LONG. 27th July 1858.

1695. JAMES LONG, of Little Tower Street, in the City of London, Philosophical Instrument Maker, for an invention for—"Improvements in cooling brewers' and distillers' worts and other liquids." *Provisional protection only*

HURN. 28th July 1858.

1696. GEORGE HURN, of Norwich, in the County of Norfolk, for an invention for—"Improving the manufacture of certain articles made from fibrous materials."

Complete specification; Letters Patent sealed.

KELLERMANN. 28th July 1858.

1697. ARNAULD KELLERMANN, at Courbevoie, Departement de la Seine, French Empire, for an invention for—"The employ of new vegetal substances for dying and especially to replace cochineal dye." *Letters Patent sealed.*

POUGAULT. 28th July 1858.

1698. ALEXANDRE POUGAULT, of Decize (Niévre), a Town of France, Practical Engineer, for an invention for—"An improved apparatus for purging or clearing steam-engines of their condensed water." *Letters Patent sealed.*

JOHNSON. 28th July 1858.

1699. MATTHEW JOHNSON, Iron Founder, Wheelock Iron Works, Sandbach, Cheshire, for an invention for—"An improved rotary steam-engine." *Provisional protection only.*

HOWARTH. 28th July 1858.

1700. RALPH HOWARTH, of the firm of Howarth and Cryer, Slater Field Foundry, Bolton-le-Moors, in the County of Lancaster, Millwrights and Engineers, for an invention for—"Improvements in furnaces for steam-boilers, for the purpose of consuming smoke and economising fuel." *Provisional protection only.*

MANTON. 28th July 1858.

1701. JOSEPH MANTON, of Birmingham, in the County of Warwick, Gun Maker, for an invention for—"A new or improved candlestick."—*Provisional protection only.*

GILBEE. 28th July 1858.

1702. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Improvements in the preparation of hydrated oxide of chromium."—*A communication.* *Letters Patent sealed.*

NEWTON. 28th July 1858.

1703. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in gas meters."—*A communication.* *Letters Patent sealed.*

TAYLOR. LANG. UTTLEY. 28th July 1858.

1704. JAMES TAYLOR, JOHN LANG, and JAMES UTTLEY, of the firm Taylor, Lang, and Company, Machine Makers, Castle Iron Works, Stalybridge, in the County of Chester, for an invention for—"Improvements applicable to self-acting mules for spinning and doubling." *Provisional protection only.*

HARDEN. 28th July 1858.

1705. HENRY HARDEN, of Dundalk, in the County of Louth, Ireland, Locomotive Superintendent to the Dublin and Belfast Junction Railway Company, for an invention for—"Improvements in the construction of tubular steam-boilers." *Letters Patent sealed.*

MILES. 28th July 1858.

1706. JOHN MILES, of Risca, in the County of Monmouth, Iron Founder, for an invention for—"Improvements in annealing-pots, and in the manufacture of iron, steel, and other metals." *Letters Patent sealed.*

COWPER. 28th July 1858.

1707. EDWARD ALFRED COWPER, of Great George Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in generating power from steam, and in engines and apparatus for that purpose." *Provisional protection only.*

BUCKINGHAM. HUMFREY. SYKES. 28th July 1858.

1708. WILLIAM BUCKINGHAM, of Broad Street, Bloomsbury, Rope Manufacturer, CHARLES HUMFREY, of Camberwell, Merchant, and LUKE RICHARD SYKES, of Duke Street, Manchester Square, Gentleman, for an invention for—"Improvements in the construction of telegraphic cables." *Provisional protection only.*

CLIFF. 28th July 1858.

1709. JOHN CLIFF, of the Imperial Potteries, Lambeth, in the County of Surrey, for an invention for—"Improvements in the manufacture of soap." *Provisional protection only.*

CAVAGGIA. SPINELLI. 29th July 1858.

1710. GUISEPPE CAVAGGIA, and ANSELMO SPINELLI, of Avignon, France, Civil Engineers, for an invention for—"Improvements in obtaining and applying motive-power." *Provisional protection only.*

MUSGRAVE. 29th July 1858.

1711. JAMES MUSGRAVE, of Belfast, Ireland, for an invention for—"Improvements in stalls and enclosures for horses, cows, and pigs." *Letters Patent sealed.*

GALLARD. 29th July 1858.

1712. AUGUSTE GALLARD, of 58, Aldersgate Street, London, and 187, Rue de Flandre à la Villette, Paris, France, for an invention for—"A new system of trusses." —*A communication from John Rainal, and Joseph Rainal, his Son, both living in Paris, France.* *Provisional protection only.*

PARKINSON. 29th July 1858.

1713. GEORGE SEABORN PARKINSON, of No. 10, Lambton Terrace, Kensington, Middlesex, Gentleman, for an invention for—"An improved connecting apparatus for working railway breaks and effecting a communication between railway guards and drivers." *Letters Patent sealed.*

BRIERLEY. 29th July 1858.

1714. JESSE BRIERLEY, of Kirkheaton, in the County of York, Manufacturer, for an invention for—"Improvements in machinery or apparatus for spinning wool and other fibres." *Letters Patent sealed.*

HINKS. 29th July 1858.

1715. JOSEPH LESTER HINKS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in machines for cleaning knives, forks, spoons, and such other articles as are or may be cleaned by polishing, also in machines for sharpening knives." *Letters Patent sealed.*

FEATHERSTONHAUGH. WISE. 30th July 1858.

1716. JOSEPH FREDERICK WILKS FEATHERSTONHAUGH, of Surrey Square, Newington, in the County of Surrey, Engineer, and FRANCIS WISE, of Peckham Grove, Camberwell, in the same County, Consulting Engineer, for an invention for —"An improved self-acting apparatus for admitting water to steam-boilers and indicating the water level." *Letters Patent sealed.*

LUIS. 30th July 1858.

1717. JOZÉ LUIS, Patent Agent, of No. 1 B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A machine for cutting up almonds for the use of confectioners and others."—*A communication.* *Provisional protection only.*

LUIS. 30th July 1858.

1718. JOZÉ LUIS, Patent Agent, of No. 1 B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"An apparatus for cooling beer and other liquids."—*A communication.* *Provisional protection only.*

LUIS. 30th July 1858.

1719. JOZÉ LUIS, Patent Agent, of No. 1 B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new system of infusion apparatus."—*A communication.* *Provisional protection only.*

REYNOLDS. 30th July 1858.

1720. GEORGE WAIDE REYNOLDS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved cradle." *Provisional protection only.*

SPENCE. 30th July 1858.

1721. JAMES SPENCE, of Liverpool, in the County of Lancaster, Iron Merchant, for an invention for—"An improvement in the manufacture of sheet, hoop, and nail-rod iron." *Provisional protection only.*

WATKINS. 30th July 1858.

1722. JAMES WATKINS, of Newport, in the County of Monmouth, for an invention for—"Improvements in machinery or apparatus for the manufacture of tallow and other candles." *Letters Patent sealed.*

SCHIELE. SCHIELE. 30th July 1858.

1723. CHRISTIAN SCHIELE, and FREDERICK SCHIELE, both of Oldham, in the County of Lancaster, Engineers, for an invention for—"Certain improvements in 'hydro-extractors' or centrifugal drying machines, and in the method of lubricating their bearings, which method is also applicable to other bearings where lubrication is required." *Letters Patent sealed.*

BESSEMER. 30th July 1858.

1724. HENRY BESSEMER, of 4, Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the treatment of pit coal, and in the separation of foreign matters therefrom." *Letters Patent sealed.*

WEBB. CRAIG. 30th July 1858.

1725. THOMAS WEBB, of Tutbury, in the County of Derby, Cotton Spinner, and JAMES CRAIG, of the same place, Manager, for an invention for—"Improvements applicable to spinning, doubling, winding, and warping yarns or threads." *Letters Patent sealed.*

DAVEY. SIMS. MAYNE. HODGE. GERRANS. 30th July 1858.

1726. JOHN DAVEY, Mine Agent, HUGH SIMS, Accountant, JOHN MAYNE, Mine Agent, WILLIAM HODGE, Smith, and JOHN GERRANS, Miner, all of the Parish of Gwennap, in the County of Cornwall, for an invention for—"An improved construction of valve applicable to various descriptions of engines or machinery." *Letters Patent sealed.*

JOHNSON. 30th July 1858.

1727. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in candlesticks or holders for candles."—*A communication.* *Provisional protection only.*

DODGE. 30th July 1858.

1728. NATHANIEL SHATTSWELL DODGE, of 44, St. Paul's Church Yard, in the City of London, Merchant, for an invention for—"Improvements in treating waste vulcanized India-rubber."—*A communication from the United States of America.* *Letters Patent sealed.*

BAILEY. 31st July 1858.

1729. JOSEPH SHARP BAILEY, Machine Wool Comber, of Keighley, in the County of York, for an invention for—"Improvements in machinery for combing wool and other fibrous materials." *Letters Patent sealed.*

DOUGLAS. 31st July 1858.

1730. HOWARD DOUGLAS, Bart., of Green Street, Grosvenor Square, in the County of Middlesex, General H. M. S., for an invention for—"Improvements in freeing screw propellers from wreck or gear with which they may become entangled." *Provisional protection only.*

HARTLEY. 31st July 1858.

1731. WILLIAM HARTLEY, of Bury, in the County of Lancaster, Engineer, for an invention for—"Improvements in the arrangement of slide valves and side pipes or valve casings of steam-engines." *Letters Patent sealed.*

PERCY. 31st July 1858.

1732. WILLIAM CARTER STAFFORD PERCY, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in arrangements and mechanism or apparatus for the manufacture of bricks, tiles, pipes, and other articles made of plastic earths." *Provisional protection only.*

ASHCROFT. WOOD. 31st July 1858.

1733. GEORGE ASHCROFT, Engineer, and HENRY WALKER WOOD, Gentleman, both of Blackweir, Cardiff, in the County of Glamorgan, South Wales, for an invention for—"An improvement in hydraulic machinery." *Letters Patent sealed.*

DAVIES. 31st July 1858.

1734. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in apparatus for planing electrotype and stereotype plates."—*A communication from Robert Wheeler, residing at Brooklyn, in the State of New York, U. S. A.* *Letters Patent sealed.*

HOUSTON. 31st July 1858.

1735. JOHN HOUSTON, of Nelson Square, Blackfriars' Road, in the County of Surrey, Gentleman, for an invention for—"Improvements in the means of effecting the consumption of smoke in furnaces." *Letters Patent sealed.*

CONYBEARE. 31st July 1858.

1736. HENRY CONYBEARE, of Abingdon Street, in the City of Westminster, Civil Engineer, for an invention for—"Improved apparatus and machinery for the laying of submarine telegraph cables." *Letters Patent sealed.*

CONYBEARE. 31st July 1858.

1737. HENRY CONYBEARE, of Abingdon Street, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in apparatuses for generating and superheating steam and for producing the condensation of steam." *Letters Patent sealed.*

BOUSFIELD. 31st July 1858.

1738. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in knitting-machines."—*A communication.* *Letters Patent sealed.*

CETTI. 31st July 1858.

1739. EDWARD JOHN MICHAEL CETTI, of Brook Street, in the County of Middlesex, Mathematical Instrument Maker, for an invention for—"An improvement in barometers, gauges, and other analogous instruments." *Letters Patent sealed.*

DE BERGUE. 31st July 1858.

1740. CHARLES DE BERGUE, of No. 9, Dowgate Hill, in the City of London, Engineer, for an invention for—"Improvements in submarine telegraphic cables, and in machinery for paying out or laying down the same." *Letters Patent sealed.*

AGNENI. 2nd August 1858.

1741. EUGENIO AGNENI, of 29, Devonshire Street, Queen's Square, Bloomsbury, in the County of Middlesex, an historical Painter, a native of Rome, for an invention for—"Increasing particularly the effect of decorative pictures, landscapes, drawings, and prints." *Provisional protection only.*

CRISPIN. 2nd August 1858.

1742. WILLIAM HENRY CRISPIN, of Marsh Gate Lane, Stratford, in the County of Essex, Copper Smelter, for an invention for—"Improvements in the construction of electric telegraph cables." *Provisional protection only.*

HILL. 2nd August 1858.

1743. GEORGE SINGLETON HILL, of Ryde, in the Parish of New Church, in the Isle of Wight, in the County of Southampton, Miller, for an invention for—"Improvements in hydro-pneumatic machinery." *Letters Patent sealed.*

SCHLESINGER. 2nd August 1858.

1744. JOSEPH WILLIAM SCHLESINGER, of Red Grove House, South Lambeth, in the County of Surrey, Gentleman, for an invention for—"A new or improved machine for roasting and basting articles of food."—*A communication.* *Letters Patent sealed.*

JACKSON. 2nd August 1858.

1745. ROBERT RAYNSFORD JACKSON, of Blackburn, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in machinery or apparatus for sizeing yarn." *Provisional protection only.*

DAVIES. 2nd August 1858.

1746. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in the manufacture of bituminous mastics."—*A communication.* *Provisional protection only.*

HINE. 2nd August 1858.

1747. STEPHEN HINE, of Macclesfield, in the County of Chester, Silk Manufacturer, for an invention for—"Certain improvements in machinery or apparatus for twisting, doubling, and retwisting and winding silk or other similar fibrous material." *Letters Patent sealed.*

MORTIMER. 2nd August 1858.

1748. CHARLES MORTIMER, of South Carolina, in the United States of America, for an invention for—"Improvements in apparatus for raising and lowering ships' boats."—*A communication.* *Provisional protection only.*

HARVEY. 2nd August 1858.

1749. WILLIAM BEAUCHAMP BAGNAL HARVEY, of Bagnal Villa, Gresham Road, Brixton, in the County of Surrey, for an invention for—"Improvements in fly or screw presses." *Letters Patent sealed.*

NORTON. 2nd August 1858.

1750. JAMES LEE NORTON, of Belle Sauvage Yard, Ludgate Hill, in the City of London, for an invention for—"Improvements in apparatus for drying wool and other substances." *Letters Patent sealed.*

HEYWOOD. HEYWOOD. 2nd August 1858.

1751. EDWARD HEYWOOD, of Liverpool, in the County of Lancaster, Mechanic, and WILLIAM HEYWOOD, of the City of Manchester, Warehouseman, for an invention for—"Improvements in the construction of metallic pistons." *Provisional protection only.*

GREAVES. 2nd August 1858.

1752. HUGH GREAVES, of Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in constructing streets, roads, and ways, thereby facilitating traffic, and providing for the more convenient conveyance of sewage, drainage, gas and water supplies, and telegraphic wires, along the same." *Letters Patent sealed.*

BILLING. 2nd August 1858.

1753. MARTIN BILLING, of High Holborn, in the County of Middlesex, for an invention for—"Improvements in metallic bedsteads." *Provisional protection only.*

TAYLOR. 3rd August 1858.

1754. WILLIAM TAYLOR, residing at Titley Cottage, Kington, Herefordshire, for an invention for—"An improvement in the manufacture of iron." *Letters Patent sealed.*

DAVIES. 3rd August 1858.

1755. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"A process and apparatus for the extraction of oils for illuminating and lubricating purposes, and of carburetted hydrogen gas, from the native bitumen of the West Indies."—*A communication.* *Provisional protection only.*

GREENHALGH. 3rd August 1858.

1756. THOMAS GREENHALGH, of Bury, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in apparatus applicable to steam-boilers." *Letters Patent sealed.*

SHAW. 3rd August 1858.

1757. JOHN SHAW, of Manchester, in the County of Lancaster, Machinist, for an invention for—"A machine for the manufacture of pasteboard and cardboard." *Provisional protection only.*

CUNNINGHAM. 3rd August 1858.

1758. ROBERT CUNNINGHAM, of Paisley, in the County of Renfrew, North Britain, Card Perforater, for an invention for—"Improvements in the production of letter-press printing surfaces, and surfaces used in reproducing ornamental patterns or devices by printing or otherwise, and in the apparatus connected therewith." *Letters Patent sealed.*

STEEL. 3rd August 1858.

1759. JAMES STEEL, of Glasgow, in the County of Lanark, North Britain, Brewer, for an invention for—"Improvements in brewing and distilling." *Letters Patent sealed.*

BELL. 3rd August 1858.

1760. GEORGE BELL, Die Maker, in the employment of Thorne and Lemon, of Fore Street, in the City of London, Engineers, for an invention for—"Improvements in embossing and printing dies, and in the manufacture of 'lace' or perforated embossed paper." *Letters Patent sealed.*

KINGSLEY. 3rd August 1858.

1761. JEFFRIES KINGSLEY, of 52, Great Coram Street, in the County of Middlesex, Lieutenant on Half Pay, Her Majesty's 3d Regiment of Dragoons, for an invention for—"Improvements in the construction of steam-boilers." *Provisional protection only.*

JOHNSON. 3rd August 1858.

1762. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in ink stands."—*A communication.* *Letters Patent sealed.*

GREENWOOD. 3rd August 1858.

1763. JOHN GREENWOOD, of Rawden, near Leeds, in the County of York, for an invention for—"Improvements in the construction of steam-boilers and other apparatus for heating water or superheating steam, which improvements are also applicable when heating air." *Letters Patent sealed.*

NEWTON. 3rd August 1858.

1764. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for forging nails and other articles."—*A communication.* *Letters Patent sealed.*

DE JONGH. 3rd August 1858.

1765. CHARLES DE JONGH, of Lautenbach, near Guebwiller, in the Empire of France, Manufacturer, for an invention for—"Improvements in machinery for assorting and preparing for spinning silk and other fibrous substances." *Letters Patent sealed.*

CALLEBAUT. 4th August 1858.

1766. CHARLES CALLEBAUT, Merchant, of 2, Rue Ste Appoline, Paris, in the Empire of France, and of 45, Essex Street, Strand, London, for an invention for—"Improvements in sewing-machines." *Letters Patent sealed.*

SPENCE. 4th August 1858.

1767. JAMES SPENCE, of Liverpool, in the County of Lancaster, Iron Merchant, for an invention for—"An improved method of rolling sheets from puddled steel or steel iron." *Provisional protection only.*

TAYLOR. 4th August 1858.

1768. JAMES TAYLOR, of Birkenhead, Engineer, for an invention for—"Pneumatic and hydraulic machines." *Letters Patent sealed.*

RUSSELL. 4th August 1858.

1769. JOHN JAMES RUSSELL, of Wednesbury, in the County of Stafford, Iron Tube Manufacturer, for an invention for—"Improvements in machinery for cutting and screwing the ends of tubes." *Letters Patent sealed.*

GILES. 4th August 1858.

1770. JOHN WHEATLEY GILES, of Sydney, New South Wales, for an invention for—"An improvement in propelling vessels." *Provisional protection only.*

BADCOCK. 4th August 1858.

1771. JAMES BADCOCK, of High Street, Highgate, in the County of Middlesex, for an invention for—"Improvements in apparatus to be applied to ladies' dresses and other articles of wearing apparel." *Provisional protection only.*

CLAY. 4th August 1858.

1772. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron and Steel Manufacturer, for an invention for—"An improved manufacture of metallic hoops, bands, and other analogous articles." *Letters Patent sealed.*

ARCHER. 4th August 1858.

1773. CHARLES MAYBURY ARCHER, of the Morning Herald and Standard Newspapers, and of 3, St. James Gardens, Haverstock Hill, Hampstead Road, for an invention for—"Improvements in electric and submarine telegraph cables and wires." *Provisional protection only.*

PASCOE. THOMAS. 4th August 1858.

1774. JAMES BRAY PASCOE, and JOHN ROBERTS THOMAS, of Chacewater, in the County of Cornwall, Engineers, for an invention for—"An improved method of and apparatus for feeding boilers of all steam-engines with liquid, without the aid of the force pump heretofore used." *Letters Patent sealed.*

HALL. 5th August 1858.

1775. LAWRENCE HALL, of Black Lane Mill, near Bury, in the County of Lancaster, Manufacturer, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

LUIS. 5th August 1858.

1776. JOZÉ LUIS, Patent Agent, of 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new system of truss."—*A communication.* *Letters Patent sealed.*

LUIS. 5th August 1858.

1777. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A machine for pulverizing shell, horn, and whalebone."—*A communication.* *Provisional protection only.*

LUIS. 5th August 1858.

1778. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new waterproof tube without seams or rivets, and in the apparatus connected therewith."—*A communication.* *Letters Patent sealed.*

LUIS.
5th August 1858.

1779. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A machine for drilling and grooving the naves of wheels and also to force the axle-box into the naves."—*A communication.* *Letters Patent sealed.*

MOSELEY. CHAMPNESS.
5th August 1858.

1780. WALKER MOSELEY, of Nos. 17 and 18, New Street, Covent Garden, in the County of Middlesex, Gentleman, and WILLIAM SWAIN CHAMPNESS, of Clapham, in the County of Surrey, Gentleman, for an invention for—"An improved self-filling reservoir penholder." *Provisional protection only.*

LEIGH.
5th August 1858.

1781. EVAN LEIGH, of Manchester, in the County of Lancaster, Mechanical Engineer, for an invention for—"Improvements in machinery or apparatus for preparing and spinning flax, wool, silk waste, or other fibrous materials." *Letters Patent sealed.*

HENDERSON.
5th August 1858.

1782. JOHN HENDERSON, of Lasswade, in the County of Midlothian, North Britain, Gentleman, for an invention for—"Improvements in machinery for weaving plain or figured fabrics." *Letters Patent sealed.*

M'CRUMMEN.
5th August 1858.

1783. DONALD M'CRUMMEN, of Gourock, in the County of Renfrew, North Britain, Gentleman, for an invention for—"Improvements in the manufacture or production of paper, which improvements are also applicable in the production of alkaline and other salts." *Letters Patent sealed.*

MATHER.
5th August 1858.

1784. COLIN MATHER, of Salford Iron Works, in the Parish of Manchester, County of Lancaster, for an invention for—"Improvements in shearing-machines." *Letters Patent sealed.*

BROOMAN.
5th August 1858.

1785. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in knitting-frames."—*A communication from Ulysse Puech, of Paris.* *Letters Patent sealed.*

CLAY.
5th August 1858.

1786. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron and Steel Manufacturer, for an invention for—"An improved mode of manufacturing cast steel and wrought iron into ingots and other forms." *Provisional protection only.*

CLAY.
5th August 1858.

1787. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron and Steel Manufacturer, for an invention for—"Improvements in the construction of certain descriptions of bridges and girders." *Provisional protection only.*

NEWTON.
5th August 1858.

1788. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the manufacture of lace."—*A communication.* *Letters Patent sealed.*

NEWTON.
5th August 1858.

1789. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of ornamenting textile fabrics."—*A communication.* *Provisional protection only.*

BARTHÉLEMY.
6th August 1858.

1790. CARL BARTHÉLEMY, of 27, Bush Lane, London, for an invention for—"Certain improvements in hats." *Provisional protection only.*

BOVILL.
6th August 1858.

1791. GEORGE HINTON BOVILL, of Durnsford Lodge, Wimbledon, in the County of Surrey, for an invention for—"Improvements in the manufacture of gas, also in the manufacture of coke and other fuel." *Letters Patent sealed.*

STUBBS.
6th August 1858.

1792. FRANCIS HENRY STUBBS, of Leeds, in the County of Yorkshire, Mechanical Draftsman, for an invention for—"An improved mode of communication between the guard and engineman on locomotives or railway trains." *Provisional protection only.*

KIRKMAN.
6th August 1858.

1793. CHARLES FELTON KIRKMAN, of Argyle Street, Regent Street, London, Gentleman, for an invention for—"An improved mode of treating sewage for agricultural uses, and for machinery to be employed therein." *Provisional protection only.*

CAREY.
6th August 1858.

1794. STEPHEN CAREY, of Clink Street Wharf, Bankside, Southwark, in the County of Surrey, Builder and Contractor, for an invention for—"An improved system of forming the permanent way of railroad transit, also common tramway and channel or watercourse, by the means of cast-iron plates or boxes peculiarly constructed so as to make one continuous way or channel." *Letters Patent sealed.*

Weston. 7th August 1858.	1795. George Weston, of No. 6, Pond Hill, Sheffield, in the County of York, for an invention for—"A washing-machine." *Letters Patent sealed.*
Lock. 7th August 1858.	1796. George Pearce Lock, of Liverpool, in the County of Lancaster, Oil and Colour Merchant, for an invention for—"Improvements in the composition of paints for coating iron ships, and for other useful purposes." *Provisional protection only.*
Walker. 7th August 1858.	1797. John Walker, of City Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of electric telegraph cables." *Letters Patent sealed.*
Webster. 7th August 1858.	1798. James Webster, of Birmingham, in the County of Warwick, Engineer. for an invention for—"A new or improved metallic alloy." *Provisional protection only.*
Smith. 7th August 1858.	1799. John Smith, the younger, of Coven, near Wolverhampton, in the County of Stafford, Engineer, for an invention for—"Improvements in agricultural steam-engines and locomotive steam-engines to be used on common roads." *Letters Patent sealed.*
Luis. 7th August 1858.	1800. Jozé Luis, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new twisting bobbin."—*A communication.* *Provisional protection only.*
Luis. 7th August 1858.	1801. Jozè Luis, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new covering, doubling, and twisting machine."—*A communication.* *Letters Patent sealed.*
Imray. 7th August 1858.	1802. John Imray, of 65, Bridge Road, Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in apparatus used in printing." *Letters Patent sealed.*
Taylor. 7th August 1858.	1803. John Taylor, of Roupell Park, Streatham Hill, in the County of Surrey, for an invention for—"Improvements in the manufacture of blocks for the construction of sewers and drains." *Letters Patent sealed.*
Walker. 7th August 1858.	1804. James Walker, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in machinery or apparatus for moulding or shaping metals." *Letters Patent sealed.*
Johnson. 7th August 1858.	1805. John Henry Johnson, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for working railway breaks."—*A communication from Thomas Hopper, of the City of Newark, County of Essex, and State of New Jersey, United States of America.* *Letters Patent sealed.*
Newton. 7th August 1858.	1806. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in pianofortes."—*A communication.* *Provisional protection only.*
Picking. Purssglove. 9th August 1858.	1807. John Gordon Picking, and Thomas Paramore Purssglove, both of Battersea, in the County of Surrey, for an invention for—"An improved pressure gauge for steam, gas, or other fluids." *Provisional protection only.*
Murphy. 9th August 1858.	1808. Joseph John Murphy, of Belfast, Spinner and Weaver, for an invention for—"Improvements in the construction of floating bodies, and in the means of supporting floating structures." *Provisional protection only.*
Ingram. 9th August 1858.	1809. Thomas Ingram, of Bradford, in the County of York, Foreman, for an invention for—"Improvements in means or apparatus for operating railway breaks." *Letters Patent sealed.*
Clayton. 9th August 1858.	1810. Henry Clayton, of the Atlas Works, Upper Park Place, Dorset Square, in the County of Middlesex, for an invention for—"Improvements in machinery for manufacturing bricks and tiles and other articles of brick, earth, clay, or other plastic material." *Letters Patent sealed.*
Smith. 9th August 1858.	1811. Willoughby Smith, of 3, Montrose Villas, Pownall Road, Dalston, in the County of Middlesex, for an invention for—"An improved compound for coating or insulating electric telegraph wires and for coating other surfaces." *Letters Patent sealed and specification filed, by order.*

MESSENGER. 9th August 1858.

1812. THOMAS GOODE MESSENGER, of High Street, Loughborough, in the County of Leicester, Horticultural Builder and Plumber, for an invention for—"Improvements in the manufacture of garden engines, which are also applicable to fire or other engines." *Letters Patent sealed.*

WILLIAMS. 9th August 1858.

1813. ALFRED HAMLYN WILLIAMS, of Cornhill, in the City of London, Manufacturer, for an invention for—"Improvements in fastenings for porte-monnaies, pocket-books, and other like articles." *Provisional protection only.*

NEWTON. 9th August 1858.

1814. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved method of arranging and applying magnets to counteract or compensate for the effects of local attraction on the mariners' compass."—*A communication.* *Letters Patent sealed.*

NEWTON. 9th August 1858.

1815. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery for drawing and twisting wool or other fibrous material."—*A communication.* *Letters Patent sealed.*

SPENCE. 9th August 1858.

1816. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"The precipitation of purple colouring matter by chloride of calcium."—*A communication.* *Letters Patent sealed.*

PICKFORD. 10th August 1858.

1817. THOMAS PICKFORD, of Mark Lane, in the City of London, Merchant, for an invention for—"Improvements in the preparation and manufacture of manure." *Provisional protection only.*

BARCHOU. 10th August 1858.

1818. ALFRED BARCHOU, of No. 49, Saint Augustin's Road, Camden Town, in the County of Middlesex, Working Jeweller, for an invention for—"Improvements in the mode of fastening the soles and heels of boots and shoes."—*A communication.* *Letters Patent sealed.*

HENRY. 10th August 1858.

1819. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture or production of saltpetre and the preparation of materials for the purpose."—*A communication.* *Provisional protection only.*

COLLYER. 10th August 1858.

1820. ROBERT HANHAM COLLYER, M.D. and C.E. of No. 3, Park Road, Regent's Park, County of Middlesex, for an invention for—"An improved coating composition to protect vessels from marine animal and vegetable substances." *Letters Patent sealed.*

HAECK. 10th August 1858.

1821. FRANÇOIS HAECK, of Schaerbeck, near Brussels, in the Kingdom of Belgium, Gentleman, for an invention for—"Improvements in the construction of cocks, taps, or valves." *Letters Patent sealed.*

MOSES. 10th August 1858.

1822. MONTAGUE MOSES, of Portsdown Road, Maida Hill, in the County of Middlesex, Gentleman, for an invention for—"Improvements applicable to umbrella and parasol sticks." *Letters Patent sealed.*

WHITEHEAD. 10th August 1858.

1823. JAMES HEYWOOD WHITEHEAD, of Royal George Mills, in the Parish of Saddleworth, in the County of York, Woollen Manufacturer, for an invention for—"Improvements in the manufacture of woollen bags." *Provisional protection only.*

PITMAN. 11th August 1858.

1824. JOHN TALBOT PITMAN, of the American and European Patent Offices, 67, Gracechurch Street, London, for an invention for—"An improved mode of operating apparatus for lifting and pressing."—*A communication.* *Letters Patent sealed.*

COTTAM. 11th August 1858.

1825. SAMUEL FLETCHER COTTAM, of the City of Manchester, Machinist, for an invention for—"Improvements in machinery for doubling cotton and other yarns or threads." *Letters Patent sealed.*

GIST. 11th August 1858.

1826. ROBERT CLARK GIST, Gentleman, of 36, Cannon Street, in the City of London, for an invention for—"Improvements in knitting-machines."—*A communication.* *Letters Patent sealed.*

JOYCE.
CURE.
BOYES.
CLOUGH.
11th August 1858.

1827. JOHN BARNETT JOYCE, St. Dunstan's Works, Conway Street, Bradford, JOHN CURE, JOSEPH BOYES, and JONATHAN CLOUGH, of the firm of Cure & Co., Wool Combers, Ebenezer Mill, Mill Lane, Bradford, Yorkshire, for an invention for —" Improvements in machinery or apparatus for combing wool and other fibrous materials." *Provisional protection only.*

APPOLD.
11th August 1858.

1828. JOHN GEORGE APPOLD, of Wilson Street, Finsbury Square, in the County of Middlesex, Gentleman, for an invention for—" Improvements in the manufacture of wire ropes or cables." *Provisional protection only.*

BROOMAN.
11th August 1858.

1829. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—" Improvements in time-keepers." —*A communication from F. P. Vaglica, of Palermo.* *Provisional protection only.*

TAMBERLICK.
11th August 1858.

1830. ENRICO TAMBERLICK, of the Rue du Commerce, Quartier Leopold, Brussels, in the Kingdom of Belgium, for an invention for—" Improvements in apparatus used for exhibiting advertisements."—*A communication.* *Provisional protection only.*

MECKELL.
11th August 1858.

1831. WILLIAM MECKELL, of Friday Street, in the City of London, for an invention for—" Improvements in textile fabrics." *Provisional protection only.*

KNOWLES.
12th August 1858.

1832. WILLIAM KNOWLES, of Bolton-le-Moors, in the County of Lancaster, Cotton Spinner, for an invention for—" Improvements in certain parts of machinery used in preparing and spinning cotton and other fibrous materials." *Letters Patent sealed.*

SCOTT.
MARTINUCCI.
12th August 1858.

1833. JOHN SCOTT, of Shoreham, Commander in the Mercantile Marine, and ANTONIO MARTINUCCI, of Brighton, both in the County of Sussex, Gentleman, for an invention for—" An improved steam-engine." *Provisional protection only.*

HOUGHTON.
12th August 1858.

1834. GEORGE HOUGHTON, of Birmingham, in the County of Warwick, Saddler, for an invention for—" An improvement or improvements in saddles." *Letters Patent sealed.*

MAISSIAT.
12th August 1858.

1835. JACQUES HENRI MARIE MAISSIAT, of Paris, in the Empire of France, Chemist, for an invention for—" Improvements in wheels." *Letters Patent sealed.*

METZLER.
WADDELL.
12th August 1858.

1836. GEORGE METZLER, of the firm of Metzler & Co., Musical Instrument Makers, Great Marlborough Street, and JAMES WADDELL, of Brompton, all in the County of Middlesex, for an invention for—" Improvements in the construction and formation of valve musical instruments." *Letters Patent sealed.*

FOGG.
12th August 1858.

1837. JAMES FOGG, of Great Lever, near Bolton, in the County of Lancaster, Book-keeper, for an invention for—" Improvements in pressure gauges." *Letters Patent sealed.*

BAXENDALE.
12th August 1858.

1838. REUBEN BAXENDALE, of the City of Manchester, in the County of Lancaster, Machine Engraver, for an invention for—" Improvements in brushes, mops, or apparatus for washing and cleaning." *Provisional protection only.*

PATERSON.
12th August 1858.

1839. ALEXANDER JOHN PATERSON, of Edinburgh, Esquire, for an invention for—" An improvement in propelling ships and vessels." *Letters Patent sealed.*

JOBSON.
12th August 1858.

1840. ROBERT JOBSON, of Wordsley, in the County of Stafford, Iron Founder, for an invention for—" Improvements in apparatus used when making moulds for casting shells and other articles." *Letters Patent sealed.*

SMITH.
12th August 1858.

1841. EDWIN SMITH, of Dudley Port, Tipton, in the County of Stafford, for an invention for—" An improvement in puddling iron." *Provisional protection only.*

JOBSON.
12th August 1858.

1842. ROBERT JOBSON, of Wordsley, in the County of Stafford, Iron Founder, for an invention for—" Improvements in apparatus for supplying water to axle-tree boxes and other journal bearings, to lubricate the same." *Letters Patent sealed.*

SMITH.
ASHBY.
12th August 1858.

1843. HENRY SMITH, and THOMAS WOODHOUSE ASHBY, of Stamford, in the County of Lincoln, Agricultural Implement Makers, for an invention for—"Improvements applicable to haymaking machines, whereby such machines are rendered useful for other agricultural purposes." *Letters Patent sealed.*

JOBSON.
12th August 1858.

1844. ROBERT JOBSON, of Wordsley, in the County of Stafford, Iron Founder, for an invention for—" Improvements in apparatus for crushing and sifting." *Letters Patent sealed.*

NORTCLIFF. 13th August 1858.

1845. WILLIAM BEAUMONT NORTCLIFF, of Fell Grove, near Huddersfield, in the County of York, Dyer, for an invention for—"An improvement in dyeing woollen, worsted, cotton, silk, linen, and other textile fabrics and fibrous substances." *Letters Patent sealed.*

AUTRA. 13th August 1858.

1846. LOUIS AUTRA, of Wardour Street, in the County of Middlesex, Manufacturer, for an invention for—"Improved apparatuses for exhibiting advertizements." *Provisional protection only.*

MANCEAUX. 13th August 1858.

1847. FRANÇOIS JULES MANCEAUX, of Paris, in the Empire of France, Manufacturer, for an invention for—"Improvements in stocks for fire-arms." *Letters Patent sealed.*

LIGHT. 13th August 1858.

1848. CHARLES LLEWELLYN LIGHT, of Pall Mall East, in the County of Middlesex, Electrical Engineer, for an invention for—"Improvements in electric telegraph ropes or cables." *Letters Patent sealed.*

RICKETT. 13th August 1858.

1849. THOMAS RICKETT, of the Castle Foundry, Buckingham, for an invention for—"Improvements in locomotive engines and other carriages to facilitate their transit." *Letters Patent sealed.*

PETRIE. 13th August 1858.

1850. JOHN PETRIE, Junior, of Rochdale, in the County of Lancaster, Ironmonger, for an invention for—"Improvements in machinery or apparatus for stretching and drying woven fabrics." *Letters Patent sealed.*

WORTH. SPENCER. 13th August 1858.

1851. THOMAS WORTH, of Rochdale, in the County of Lancaster, Wire Card Maker, and HENRY SPENCER, of the same place, Agent, for an invention for—"Improvements in machinery or apparatus for preparing for spinning and for spinning cotton and other fibrous materials, in winding and warping yarns of the said materials, and in making wire cards for such preparing machinery." *Letters Patent sealed.*

SCHAUB. 13th August 1858.

1852. GEORGE SCHAUB, of Birmingham, in the County of Warwick, Electro Metallurgist, for an invention for—"New or improved machinery to be used in the manufacture of certain kinds of printing types, and also in the manufacture of spaces and quadrats used in setting up printing types." *Provisional protection only.*

JOHNSON. 13th August 1858.

1853. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the treatment of crude India-rubber, gutta-percha, or other vulcanizable gums, and in the manufacture therefrom of what are usually called hard rubber articles."—*A communication from Austin G. Day, of Seymour, Connecticut, United States of America.* *Letters Patent sealed.*

PENGELLY. BROWN. 13th August 1858.

1854. THOMAS GOLDSWORTHY PENGELLY, Gun Maker, residing 5, Cheshunt Crescent, Waltham Cross, Hertfordshire, and HENRY BROWN, Gun Maker, residing Old Road, Enfield Highway, Middlesex, for an invention for—"Improvements in apparatus for straightening gun barrels." *Provisional protection only.*

CARTMEL. 14th August 1858.

1855. JOHN CARTMEL, of Stamford Street, in the County of Surrey, Hat Manufacturer, for an invention for—"Improvements in the manufacture of hats, caps, and other coverings for the head." *Letters Patent sealed.*

MENNONS. 14th August 1858.

1856. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, No. 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"Improvements in the construction of jacquard looms."—*A communication.* *Complete specification; Letters Patent sealed.*

HOLT. 14th August 1858.

1857. JOSEPH HOLT, of Shelf, near Halifax, in the County of York, Mechanic, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

SMITH. CHEASE. 14th August 1858.

1858. JAMES SMITH, of Seaforth, near Liverpool, in the County of Lancaster, Gentleman, and SYDNEY ARTHUR CHEASE, of Liverpool aforesaid, Gentleman, for an invention for—"Improved arrangements for obtaining and applying motive-power." *Letters Patent sealed.*

SLATE. 14th August 1858.

1859. ARCHIBALD SLATE, of Adelaide Road, Haverstock Hill, in the County of Middlesex, for an invention for—"Improvements in blast furnaces, and in smelting iron ore." *Letters Patent sealed.*

LISTER.
WARBURTON.
14th August 1858.

1860. SAMUEL CUNLIFFE LISTER, and JAMES WARBURTON, of Manningham, in the County of York, for an invention for—"Improvements in dying wool, hair, cotton, flax, and similar materials, also yarns and textile fabrics made from such materials, also in dying and tanning other substances and materials, also in washing wool, and in discharging the gum from silk." *Letters Patent sealed.*

O'NEILL.
14th August 1858.

1861. CHARLES O'NEILL, of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of artificial gums from starch, farina, and other amylaceous substances, and in apparatus for such manufacture." *Letters Patent sealed.*

BETJEMANN.
BETJEMANN.
BETJEMANN.
14th August 1858.

1862. GEORGE BETJEMANN, GEORGE WILLIAM BETJEMANN, and JOHN BETJEMANN, all of Upper Ashby Street, in the County of Middlesex, Desk and Dressing Case Makers, for an invention for—"An improvement in book-slides." *Provisional protection only.*

NEWTON.
14th August 1858.

1863. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved combination of metal with India-rubber or gutta-percha, or with India-rubber or gutta-percha combined with other substances, in the manufacture of belting, hose, valves, and other articles."—*A communication.* *Provisional protection only.*

FOROT.
14th August 1858.

1864. LOUIS ALEXANDRE FOROT, Merchant, of 2, Rue Sainte Appoline, Paris, Empire of France, and of 45, Essex Street, Strand, London, for an invention for—"A new mode of ornamenting fabrics and in the apparatus connected therewith." *Letters Patent sealed.*

GEYELIN.
16th August 1858.

1865. GEORGE KENNEDY GEYELIN, Civil Engineer, of London, in the County of Middlesex, for an invention for—"Folding bedsteads, and which he calls the 'Universal and folding joint for bedsteads.'" *Provisional protection only.*

CHAPPUIS.
16th August 1858.

1866. PAUL EMILE CHAPPUIS, Patentee and Manufacturer of Daylight Reflectors and Stereoscopes, 69, Fleet Street, London, E.C., for an invention for—"Improvements in stereoscopes and stereoscopic apparatus." *Letters Patent sealed.*

CUTCHEY.
16th August 1858.

1867. CHRISTOPHER GEORGE CUTCHEY, of 15, Portland Cottages, Forest Hill, in the County of Kent, Gentleman, for an invention for—"A railway danger signal whistle." *Provisional protection only.*

HERRMANN.
HERRMANN.
16th August 1858.

1868. LOUIS ADOLPHE HERRMANN, and ERNEST INNOCENT EMILE HERRMANN, Engineers, of Paris, in the Empire of France, for an invention for—"Improvements in connecting together pipes, tubes, or ways for the conveyance of water or other fluid, and in means or apparatus for regulating the flow or discharge and supply of such fluid, and in means or apparatus for facilitating the forming of such connections." *Letters Patent sealed.*

NEWTON.
16th August 1858.

1869. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improvements in machinery for forging horse shoes."—*A communication.* *Letters Patent sealed.*

RICHARD.
16th August 1858.

1870. PIERRE RICHARD, of No. 17, Rue St. Jean, Faubourg St. Germain, Paris, Practical Engineer, for an invention for—"Improvements in apparatus for obtaining motive-power." *Provisional protection only.*

WEBSTER.
17th August 1858.

1871. JAMES WEBSTER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"A new or improved projectile." *Provisional protection only.*

EVANS.
17th August 1858.

1872. WARDLE EASTLAND EVANS, Musical Instrument Maker, of Norfolk Street, Sheffield, in the County of York, for an invention for—"Improvements in harmoniums, concertinas, organs, and other similar keyed instruments." *Letters Patent sealed.*

JACKSON.
FISHER.
17th August 1858.

1873. JAMES JACKSON, and AARON FISHER, Manufacturers, of Highfield Street Works, Sheffield, in the County of York, for an invention for—"An improvement in the manufacture of hats." *Provisional protection only.*

HALKERSTON.
17th August 1858.

1874. GEORGE HALKERSTON, of Frenchie, in the County of Fife, North Britain, Millwright, for an invention for—"Improvements in mangles." *Provisional protection only.*

NORTON.
17th August 1858.

1875. JOHN NORTON, of Rosherville, in the County of Kent, late Captain in Her Majesty's 34th Regiment, for an invention for—"Improvements in projectiles." *Letters Patent sealed.*

SHAW.
17th August 1858.

1876. FRANCIS SHAW, of Siddals Road, Derby, in the County of Derby, Silk Throwster and Silk Merchant, for an invention for—"Improvements in spindles for the spinning of silk and other fibrous material." *Letters Patent sealed.*

MILLS.
17th August 1858.

1877. GEORGE MILLS, of 5, St. George's Terrace, Queen's Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in machinery for cutting wood for staves." *Provisional protection only.*

LICHTENSTADT.
DUFF.
17th August 1858.

1878. DAVID LICHTENSTADT, of Surrey Square, Old Kent Road, in the County of Surrey, Chemist, and CHARLES DUFF, of Hill Street, Peckham, in the same County, Gentleman, for an invention for—"Improvements in treating tan and tanning refuse to obtain valuable products therefrom."—*A communication.* *Provisional protection only.*

LUIS.
18th August 1858.

1879. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, (Cavendish Square), London, in the County of Middlesex, for an invention for—"A new safety system for preventing an accidental discharge in fire-arms."—*A communication.* *Letters Patent sealed.*

PINTA.
18th August 1858.

1880. ACHILLE VICTOR PINTA, of 63, King William Street, in the City of London, Foreign Law Agent, for an invention for—"Improvements in blank forms of cheques or drafts on bankers payable on demand, relating to the crossing of such cheques or drafts." *Complete specification*; *Letters Patent sealed.*

SOELMAN.
18th August 1858.

1881. WILLIAM SOELMAN, of 3, Bennett Street (W.), in the County of Middlesex, for an invention for—"Additional improvements in the construction of propellers, chiefly with reference to his former patent, dated 20th August, 1855." *Provisional protection only.*

WILLIAMS.
18th August 1858.

1882. THOMAS WILLIAMS, of Aberdaron, in the County of Carnarvon, North Wales, Engineer, for an invention for—"An apparatus to be used for a churn or for a washing-machine." *Provisional protection only.*

ANDERSON.
18th August 1858.

1883. ROBERT ANDERSON, of Blackbraes, in the County of Stirling, North Britain, Engineer, for an invention for—"Improvements in stuffing-boxes and packings." *Letters Patent sealed.*

DUKE.
18th August 1858.

1884. THOMAS OLIVER DUKE, of Kennington, for an invention for—"Improvements in preparing cheques and such like documents, and in the means of preventing forgery or surreptitious alterations." *Provisional protection only.*

PILBEAM.
19th August 1858.

1885. ALEXANDER PILBEAM, Architect, 2, Lonsdale Place, Notting Hill, for an invention for—"A bradawl screw." *Letters Patent sealed.*

HUDSON.
CATLOW.
19th August 1858.

1886. WILLIAM HUDSON, of Burnley, in the County of Lancaster, Machinist, and CHRISTOPHER CATLOW, of Clithero, in the same County, Overlooker, for an invention for—"Certain improvements in looms for weaving." *Provisional protection only.*

PADWICK.
19th August 1858.

1887. WILLIAM FREDERICK PADWICK, of Hayling Island, in the County of Hants, Gentleman, for an invention for—"A machine or implement to be employed on land sown with turnips to protect them from the ravages of the fly, applicable also to the protection of other crops." *Letters Patent sealed.*

PLOMLEY.
19th August 1858.

1888. JOHN CROFT PLOMLEY, of Maidstone, in the County of Kent, Gentleman, for an invention for—"An improvement in joists and laths used for supporting hair and other pervious floors in oast houses." *Provisional protection only.*

DELFOSSE.
19th August 1858.

1889. MAXIMILIEN FRANÇOIS JOSEPH DELFOSSE, of Regent Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in electro-magnetic machines." *Provisional protection only.*

SMITH.
19th August 1858.

1890. WILLIAM SMITH, No. 18, Salisbury Street, Strand, Civil Engineer, for an invention for—"Improvements in steam-engines."—*A communication from Mr. H. W. Gullett, Engineer, residing in Russia.* *Letters Patent sealed*

PEARCE.
20th August 1858.

1891. WILLIAM PEARCE, of Bristol, in the City and County of Bristol, Surgical Instrument Manufacturer, for an invention for—"Improvements in the manufacture of air-tight bottles, jars, or similar articles." *Letters Patent sealed.*

MUNN.
20th August 1858.

1892. WILLIAM AUGUSTUS MUNN, of Throwley House, near Feversham, in the County of Kent, a Major in the East Kent Regiment of Militia, a Deputy Lieutenant and Justice of the Peace for the County of Kent, for an invention for—"An improved method of constructing railway carriages whereby greater safety is insured in case of collision." *Provisional protection only.*

PRESTON.
McGREGOR.
20th August 1858.

1893. FRANCIS PRESTON, of the City of Manchester, Mechanical Engineer, and WILLIAM McGREGOR, of the same place, Mechanic, for an invention for—"Improvements in machinery for cutting files." *Letters Patent sealed.*

HOOD.
20th August 1858.

1894. HENRY HOOD, of the Leeds Iron Works, Leeds, in the County of York, for an invention for—"Improvements in the manufacture of railway tyre bars, boiler plates, bar iron, and forgings." *Letters Patent sealed; no specification filed.*

DROINET.
20th August 1858.

1895. LOUIS FELIX HENRI DROINET, of Paris, in the Empire of France, Engineer, for an invention for—"Improvements in bearings and packings for rotating and reciprocating shafts, the joints of pipes, and other like purposes." *Provisional protection only.*

SPENCE.
20th August 1858.

1896. PETER SPENCE, of Pendleton, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of alum." *Letters Patent sealed.*

FIGGETT.
20th August 1858.

1897. JAMES LEWIS FIGGETT, of Missionary Place, Walworth, in the County of Surrey, Surgical Turner, for an invention for—"An improved construction of syringe or hand pump." *Letters Patent sealed.*

CLAY.
BENZON.
20th August 1858.

1898. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron and Steel Manufacturer, and EDMUND LEOPOLD BENZON, of Sheffield, in the County of York, Steel Manufacturer, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*

KNOWLES.
20th August 1858.

1899. THOMAS KNOWLES, of Gomersal, in the County of York, Machine Maker, for an invention for—"Improvements in looms for weaving."—*A communication.* *Provisional protection only.*

BAKER.
20th August 1858.

1900. ALBERT BAKER, of the City of Boston, in the State of Massachusetts, in the United States of America, and of 6, Lambeth Road, Southwark, for an invention for—"An improved method of and apparatus for submerging or laying under water electric cables, wires, or lines, and for the recovery thereof." *Provisional protection only.*

DELPY.
21st August 1858.

1901. FRANÇOIS FRÉDÉRIC DELPY, of Paris, France, Jeweller, for an invention for—"Improvement or improvements in metallic stay busces." *Letters Patent sealed.*

WALKER.
21st August 1858.

1902. GEORGE JAMES WALKER, of Norton Folgate, in the County of Middlesex, for an invention for—"Improvements in funeral carriages." *Provisional protection only.*

BENSON.
21st August 1858.

1903. MARTIN BENSON, of Cincinnati, Ohio, United States of America, Mechanical Engineer, for an invention for—"Improved apparatus for generating steam."—*A communication.* *Letters Patent sealed.*

BROOMAN.
21st August 1858.

1904. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in sewing-machines."—*A communication.* *Provisional protection only.*

HENSON.
21st August 1858.

1905. WILLIAM HENSON, of Saint Just, in the Empire of France, Engineer, for an invention for—"Improvements in circular looms or knitting-frames." *Letters Patent sealed.*

DE JONGH.
21st August 1858.

1906. CHARLES DE JONGH, of Lautenbach, near Gwehwiller, in the Empire of France, Manufacturer, for an invention for—"Improvements in machinery for combing and heckling fibrous materials." *Letters Patent sealed.*

LAMING.
21st August 1858.

1907. RICHARD LAMING, of Hayward's Heath, in the County of Sussex, for an invention for—"Improvements in purifying gases and liquids, in preparing purifying liquids, and in apparatus for apportioning or measuring liquids."
Provisional protection only.

HARRISON.
21st August 1858.

1908. WILLIAM WHEATCROFT HARRISON, of Sheffield, in the County of York, Manufacturer, for an invention for—"An improvement in cruet and liqueur stands."
Provisional protection only.

PULS.
23rd August 1858.

1909. FRANCIS PULS, of Roxburgh Terrace, Haverstock Hill, in the County of Middlesex, Chemist, for an invention for—"Improvements in the distillation of coal."
Letters Patent sealed.

PULS.
23rd August 1858.

1910. FRANCIS PULS, of Roxburgh Terrace, Haverstock Hill, in the County of Middlesex, Chemist, for an invention for—"Improvements in the distillation of bituminous matters and gas tar." *Letters Patent sealed.*

PILON.
23rd August 1858.

1911. MARTIN REGUL PILON, Citizen of the United States, residing at Aquas Calientes, in Mexico, and actually at Brussels, in the Kingdom of Belgium, Merchant, for an invention for—"Improvements in the manufacture and construction of fire-arms and in the means of loading the same." *Letters Patent sealed.*

BUONO-CORE.
23rd August 1858.

1912. CHRISTOFORO BUONO-CORE, of Naples, and of 45, Essex Street, Strand, London, for an invention for—"A liquid or composition which when applied to substances of any kind will render them fire-proofs or uninflammables."
Provisional protection only.

HIGGINS.
BROWN.
23rd August 1858.

1913. LEWIS HIGGINS, of Jersey City, and ALEXANDER BROWN, of New York, in the United States of America, Mariners, for an invention for—"Improvements in reefing the sails of navigable vessels." *Letters Patent sealed.*

BOYLE.
23rd August 1858.

1914. ARTHUR BOYLE, of Birmingham, in the County of Warwick, Tool Maker, for an invention for—"Improvements in the manufacture of certain parts of umbrellas and parasols, and in machinery employed in the said manufacture."
Letters Patent sealed.

AVERILL.
23rd August 1858.

1915. THOMAS AVERILL, of Birmingham, in the County of Warwick, Wholesale Tea Dealer, for an invention for—"An improvement or improvements in mills for grinding."—*A communication.* *Letters Patent sealed.*

JENCKEN.
23rd August 1858.

1916. HENRY DIEDRICH JENCKEN, of the City of London, Merchant, for an invention for—"Improvements in electric telegraphs."—*Partly a communication.*
Provisional protection only.

ROBINSON.
23rd August 1858.

1917. JOHN HUNTER ROBINSON, Manager to Grant, Brothers, of Clement's Court, in the City of London, Manufacturers, for an invention for—"An improved shirt." *Letters Patent sealed.*

HARFIELD.
23rd August 1858.

1918. WILLIAM HORATIO HARFIELD, of Fenchurch Street, in the City of London, for an invention for—"Improvements in windlasses."
Letters Patent sealed.

ROTTMANN.
23rd August 1858.

1919. ALBERT ROTTMANN, of Lawrence Lane, in the City of London, for an invention for—"Improvements in fastenings for bags, porte-monnaies, pocket-books, and similar articles."—*A communication.* *Letters Patent sealed.*

SCHRADER.
24th August 1858.

1920. CARL ADOLPHE SCHRADER, of Finsbury Square, in the County of Middlesex, for an invention for—"An instrument to be used in boring for mining or other purposes." *Provisional protection only.*

BARLOW.
24th August 1858.

1921. HENRY BERNOULLI BARLOW, of the City of Manchester, Patent Agent, for an invention for—"Improvements in self-acting lubricators."—*A communication from David H. Ziegler, of Winterthur, in the Republic of Switzerland.*
Letters Patent sealed.

HINE.
ABRAHAMS.
24th August 1858.

1922. JOSEPH HINE, and ABRAHAM ABRAHAMS, both of St. John Street Road, in the County of Middlesex, Fancy Cabinet Makers, for an invention for—"Improvements in book slides or holders." *Provisional protection only.*

WILSON.
24th August 1858.

1923. HENRY WILSON, Engineer, in the employment of Powis and James, of Watling Street, in the City of London, Engineers, for an invention for—"Improvements in the mounting of band saws." *Letters Patent sealed.*

MACINTOSH. 24th August 1858.

1924. JOHN MACINTOSH, of North Bank, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in insulating telegraphic wires or conductors, and in apparatus employed therein, parts of which apparatus is applicable to the manufacture of tubes from India-rubber." *Letters Patent sealed.*

BIGGS. 24th August 1858.

1925. JOHN BIGGS, of the Borough of Leicester, Manufacturer of Hosiery, for an invention for—"Improvements in the manufacture of caps resembling in form the Turkish Fez." *Letters Patent sealed.*

BARLOW. 25th August 1858.

1926. HENRY BERNOULLI BARLOW, of the City of Manchester, Patent Agent, for an invention for—"Certain improvements in machinery for preparing flax, wool, and other fibrous materials."—*A communication.* *Provisional protection only.*

HILL. 25th August 1858.

1927. THOMAS HILL, of Heywood, in the County of Lancaster, Boiler Manufacturer, for an invention for—"Improvements in machinery or apparatus for punching and shearing metals." *Letters Patent sealed.*

DREDGE. 25th August 1858.

1928. JAMES DREDGE, of the Parish of Walcot, in the City of Bath, and County of Somerset, for an invention for—"Improvements in condensers for steam-engines, and in pumps for working such condensers, or for lifting water from deep mines, and for any other use for which pumps are applicable." *Letters Patent sealed.*

BROOMAN. 25th August 1858.

1929. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in the treatment of vegetable substances in order to convert the fibrous portions thereof into pulp."—*A communication from Husson Morel.* *Letters Patent sealed.*

EVANS. 26th August 1858.

1930. WILLIAN EVANS, of Sheffield, in the County of York, Engineer Tool Smith, for an invention for—"Improvements in machinery or apparatus for manufacturing saw backs." *Provisional protection only.*

JOHNSON. 26th August 1858.

1931. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in bellows."—*A communication.* *Letters Patent sealed.*

DE ST. GERMAIN. 26th August 1858.

1932. COMTE CAMILLE CAVALLI DE ST. GERMAIN, of Piedmont, Ex-Officier d'Artillerie Sarde, and of 32, Essex Street, Strand, London, for an invention for—"Improvements in the manufacture of starch." *Provisional protection* NOT *granted.*

BLACK. 26th August 1858.

1933. JAMES BLACK, of Edinburgh, Machine Maker, for an invention for—"An improved mode or means of obtaining, applying, and transmitting motive-power." *Letters Patent sealed.*

COATES. 26th August 1858.

1934. JOHN COATES, of Lower Shadwell, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus or machinery for obtaining and applying motive-power." *Letters Patent sealed.*

RODIER. 26th August 1858.

1935. SAMUEL NEWMAN RODIER, of 21, Oak Village, St. Pancras, in the County of Middlesex, for an invention for—"Improvements in apparatus for regulating gas." *Letters Patent sealed.*

SAUTTER. 26th August 1858.

1936. GUSTAVE MAURICE SAUTTER, of No. 14, Boulevart Montmartre, in the City of Paris, France, Gentleman, for an invention for—"Improvements in telegraphs."—*A communication from Dennis Pierre Rodier, resident at Monteux, France.* *Provisional protection only.*

GRAHAM-HOPE. 27th August 1858.

1937. DAVID GRAHAM-HOPE, of the City of Manchester, Civil Engineer, for an invention for—"The improvement of locomotive and other steam-engines." *Provisional protection only.*

TROTMAN. 27th August 1858.

1938. THOMAS TROTMAN, of 253, Albany Road, Camberwell, in the County of Surrey, Pin Maker, for an invention for—"Improvements in hair pins." *Letters Patent sealed.*

ELLISDON. 27th August 1858.

1939. JOSEPH ELLISDON, of Liverpool, in the County of Lancaster, Designer and Cabinet Maker, for an invention for—"Improvements applicable to reading chairs and other articles used to sit or recline upon." *Letters Patent sealed.*

MATLEY. 27th August 1858.

1940. FRANCIS MATLEY, of Paris, in the Empire of France, Artist, for an invention for—"Certain improvements in apparatus for regulating the flow of gas and for improving its illuminating power."—*A communication.* *Provisional protection only.*

CLARK. 27th August 1858.

1941. WILLIAM STETTINIUS CLARK, of Banbury, in the County of Oxford, for an invention for—"Improvements in reefing or furling sails from the deck of vessels."—*A communication from Louis B. Wakeman, of the City of Baltimore, United States.* *Provisional protection only.*

ESSON. 27th August 1858.

1942. WILLIAM ESSON, of Cheltenham, in the County of Gloucester, Engineer, for an invention for—"Improvements in wet gas meters." *Letters Patent sealed.*

HART. 27th August 1858.

1943. HERBERT WILLIAM HART, of No. 69, Fleet Street, Gas Engineer, for an invention for—"Improvements in the application of gas to chandeliers." *Letters Patent sealed.*

EVANS. 27th August 1858.

1944. FREDERICK JOHN EVANS, of the Chartered Gas Works, Horseferry Road, Westminster, Engineer, for an invention for—"An improvement applicable to gas purifying." *Letters Patent sealed.*

NEWTON. 27th August 1858.

1945. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for sorting silk or other thread according to its size or thickness."—*A communication.* *Letters Patent sealed.*

NEWTON. 27th August 1858.

1946. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements applicable to vessels employed in the manufacture of glass or the melting of vitreous substances."—*A communication.* *Letters Patent sealed.*

KEMPE. 27th August 1858.

1947. WILLIAM KEMPE, of Holbeck Mills, Leeds, for an invention for—"Improvements in apparatus used for winding woollen and other fabrics on rollers in order to such fabrics being boiled or faced when on the rollers." *Letters Patent sealed.*

FOWLER. BURTON. 27th August 1858.

1948. JOHN FOWLER, Junior, of Cornhill, in the City of London, and ROBERT BURTON, of Kingsland Road, in the County of Middlesex, for an invention for—"Improvements in the construction and arrangement of locomotive and other carriages, to facilitate their movement on common roads and other surfaces." *Letters Patent sealed.*

KNIGHT. 27th August 1858.

1949. RICHARD KNIGHT, of Foster Lane, in the City of London, for an invention for—"Improvements in apparatus for aërating liquids." *Letters Patent sealed.*

IRELAND. 28th August 1858.

1950. JONATHAN IRELAND, of the City of Manchester, in the County of Lancaster, Foundry Engineer, for an invention for—"Improvements in cupola furnaces." *Letters Patent sealed.*

WHITE. 28th August 1858.

1951. GEORGE WHITE, of 34, Dowgate Hill, Cannon Street, in the City of London, for an invention for—"Ambulatory furniture for apartments."—*A communication from Mr. Von Mannstein, of Vienna, Austria.* *Letters Patent sealed.*

FOSTER. 28th August 1858.

1952. WILLIAM FOSTER, of Black Dike Mills, near Bradford, in the County of York, Spinner and Manufacturer, for an invention for—"Improvements in the manufacture or production of fabrics known as fancy moreens." *Provisional protection only.*

COODE. 28th August 1858.

1953. GEORGE COODE, of the City of Westminster, Barrister at Law, for an invention for—"Improvements in the adjustment of hose in machines for distributing liquid manure and other liquids over land, also for an improved method of and apparatus for manufacturing the hose to be used with such machines or otherwise, and for gathering and puckering canvas, linen, leather, and other textile and membraneous substances." *Provisional protection only.*

BRABAZON. 28th August 1858.

1954. JAMES DUPRÉ BRABAZON, of Lane's Hotel, St. Alban's Place, Haymarket, Esquire, for an invention for—"Improvements in giving motion by sails to screw and other propellers of ships and vessels." *Letters Patent sealed.*

WEEDON. RICE. 28th August 1858.

1955. GEORGE WEEDON, of No. 41, Poland Street, in the County of Middlesex, and DAVID WILLIAM RICE, of No. 1, New Road, Woolwich, in the County of Kent, for an invention for—"An improved knife and fork cleaning machine, part of which is applicable to other purposes." *Letters Patent sealed.*

BRIGNOLES. 30th August 1858.

1956. FRANÇOIS BRIGNOLES, of 58, Torrington Square, in the County of Middlesex, for an invention for—"Improvements in apparatus for the disinfection and rectification of bad tasted alcohols, by the separation of the essential oils from the alcoholic exhalations."—*A communication from St. Cyr Prieur, resident at Avignon, in the Empire of France.* *Provisional protection only.*

PLATT. HARTLEY. 30th August 1858.

1957. JOHN PLATT, of Oldham, in the County of Lancaster, Mechanical Engineer, and EDMUND HARTLEY, of the same place, Mechanical Engineer, for an invention for—"Improvements in certain parts of machinery for preparing and spinning cotton and other fibrous materials." *Provisional protection only.*

MASSEY. 30th August 1858.

1958. EDWARD MASSEY, of Tysoe Street, Clerkenwell, in the County of Middlesex, Ships' Log Manufacturer, for an invention for—"Improvements in ships' logs." *Letters Patent sealed.*

BRAZIL. M'KINNELL. 30th August 1858.

1959. JOHN BRAZIL, of Manchester, in the County of Lancaster, Calico Printer, and JOSEPH M'KINNELL, of the same place, Calico Printer, for an invention for—"An improved method of indigo blue dyeing."—*A communication.* *Letters Patent sealed.*

DAVIES. 30th August 1858.

1960. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in billiard tables and cues."—*A communication.* *Letters Patent sealed.*

BRAZIL. M'KINNELL. 30th August 1858.

1961. JOHN BRAZIL, of Manchester, in the County of Lancaster, Calico Printer, and JOSEPH M'KINNELL, of the same place, Calico Printer, for an invention for—"An improved method of indigo blue dyeing." *Letters Patent sealed.*

HANSON. 30th August 1858.

1962. BENJAMIN HANSON, of Paddock, near Huddersfield, in the County of York, Manufacturer, for an invention for—"Improvements in means and apparatus for sizing and drying woollen yarns for warps." *Provisional protection only.*

OXLEY. 30th August 1858.

1963. JOHN OXLEY, of Camden Town, for an invention for—"Improvements in baths." *Letters Patent sealed.*

JONES. 30th August 1858.

1964. GRIFFITH JONES, of Bangor Wharf, Pimlico, in the County of Middlesex, Slate Merchant, for an invention for—"Securing joints in slate ridge roll." *Letters Patent sealed.*

CLARK. BRAITHWAITE. PREECE. 30th August 1858.

1965. JOSIAH LATIMER CLARK, of Adelaide Road, in the County of Middlesex, Civil Engineer, FREDERICK BRAITHWAITE, of Bridge Street, in the City of Westminster, Civil Engineer, and GEORGE EDWARD PREECE, of Bernard Street, in the County of Middlesex, Electrician, for an invention for—"Improvements in telegraph cables." *Letters Patent sealed.*

LINDNER. 30th August 1858.

1966. EDWARD LINDNER, of New York, in the United States of America, Engineer, for an invention for—"Improvements in breech-loading fire-arms and ordnance, and in cartridges." *Letters Patent sealed.*

WIART. 30th August 1858.

1967. LEOPOLD WIART, of Cambrai, in the Empire of France, Civil Engineer, for an invention for—"An improved mode of generating steam or heating water or liquids." *Letters Patent sealed.*

HARDING. 30th August 1858.

1968. THOMAS RICHARDS HARDING, of Leeds, in the County of York, Machinist, for an invention for—"Improvements in the method of making straight or circular combs for flax, wool, or silk machinery." *Provisional protection only.*

JOHNSON. 30th August 1858.

1969. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the construction of governors or regulators for steam-engines."—*A communication from William W. W. Wood, and John Rice, both of the City of Philadelphia, State of Pennsylvania, United States of America.* *Letters Patent sealed.*

SPARY. 31st August 1858.

1970. EDWARD SPARY, of Queen's Graperies, Park Street, Brighton, in the County of Sussex, Nurseryman and Florist, for an invention for—"Improvements in fumigators." *Letters Patent sealed.*

MENNONS. 31st August 1858.

1971. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for —" Improvements in supports of rails for railways."—*A communication.*
Complete specification; Letters Patent sealed.

MENNONS. 31st August 1858.

1972. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for —" Improved apparatus for the elevation of liquids."—*A communication.*
Provisional protection only.

MENNONS. 31st August 1858.

1973. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for —" An improved apparatus for mounting the driving bands of machinery in movement."—*A communication.* *Letters Patent sealed.*

AYCKBOURN. 31st August 1858.

1974. FREDERICK AYCKBOURN, of Lyon's Inn, Strand, Gentleman, for an invention for—" Improvements in the construction of beds and other articles for sitting or reclining upon." *Provisional protection only.*

STONEHAM. 31st August 1858.

1975. JAMES STONEHAM, of Audenshaw, near Manchester, in the County of Lancaster, for an invention for—" Improvements in cleaning and treating cotton and woollen waste or other fibrous materials, and in extracting oil or grease therefrom."
Provisional protection only.

HEYWORTH. HEYWORTH. 31st August 1858.

1976. DANIEL HEYWORTH, Manager, Featherstall Mill, Littleborough, in the County of Lancaster, and JOHN HEYWORTH, Manager, Prospect Mill, Hebden Bridge, in the West Riding of Yorkshire, for an invention for—" Certain improvements in looms for weaving." *Letters Patent sealed.*

JOHNSON. 31st August 1858.

1977. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—" Improvements in the prevention of steam-boiler explosions."—*A communication from Jane H. Lloyd, George T. Parry, and Henry D. Beylard, all of the City of Philadelphia, State of Pennsylvania, United States of America.* *Letters Patent sealed.*

NEWTON. 31st August 1858.

1978. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—" An improvement in gas burners."—*A communication.* *Letters Patent sealed.*

ROSE. 31st August 1858.

1979. WILLIAM ROSE, of Hales Owen, in the County of Worcester, Gun Barrel Manufacturer, for an invention for—" An improvement or improvements in piling or combining metals to be used in the manufacture of arms and cutlery and for other similar purposes." *Letters Patent sealed.*

NEWTON. 31st August 1858.

1980. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—" Improvements in air engines."—*A communication.* *Letters Patent sealed.*

MARGESSON. 31st August 1858.

1981. PHILIP DAVIES MARGESSON, of Woolwich, in the County of Kent, Captain, Royal Artillery, for an invention for—" Improvements in treating sugar canes and other canes containing saccharine matter, in the preparation of food for animals, also in manufacturing sugar and worts or wash for brewing, distilling, and vinegar making, and in applying the resulting fibre in the manufacture of paper."
Letters Patent sealed.

PURSALL. 1st September 1858.

1982. WILLIAM PURSALL, of Number 22, Whittall Street, Birmingham, in the County of Warwick, Percussion Cap Manufacturer, for an invention for—" Improvements in the manufacture of percussion caps." *Provisional protection only.*

PHELPS. 1st September 1858.

1983. WILLIAM PHELPS, of Red Lion Square, in the County of Middlesex, Gentleman, for an invention for—" Improvements in wet gas meters."—*A communication from H. P. Gengembre, of Rock Island, Illinois, in the United States of America.*
Provisional protection only.

HOBBS. 1st September 1858.

1984. WILLIAM HOBBS, of No. 196, Piccadilly, in the County of Middlesex, Shop Fitter, for an invention for—" Improvements in ordnance and warlike projectiles to be used therewith." *Letters Patent sealed and specification filed, by order.*

SLOPER.
1st September 1858.

1985. JOSEPH SLOPER, of 215, Oxford Street, in the County of Middlesex, Builder and Decorator, for an invention for—"Improved means of and apparatus for indelibly crossing or marking bankers' checques, drafts, documents, or other things, with a view of preventing erasures or fraudulent dealings therewith." *Letters Patent sealed.*

JENNINGS.
1st September 1858.

1986. HENRY CONSTANTINE JENNINGS, of 8, Great Tower Street, in the City of London, Practical Chemist, for an invention for—"Improvements in the manufacture of artificial parchment and converting the same into leather." *Provisional protection only.*

WARNE.
1st September 1858.

1987. WILLIAM WARNE, of Tottenham, in the County of Middlesex, India-rubber Manufacturer, for an invention for—"Improvements in the construction of elastic pavements, and linings for walls, and in the manufacture of elastic mats, brushes, and pads for packing furniture." *Letters Patent sealed.*

NEWTON.
1st September 1858.

1988. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the manufacture of alumina."—*A communication from M. le Chatelier, Mining Engineer, residing at Paris, in the Empire of France.* *Letters Patent sealed.*

NEWTON.
1st September 1858.

1989. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of locks for doors, safes, and other purposes."—*A communication.* *Letters Patent sealed.*

NEWTON.
1st September 1858.

1990. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in springs for carriages and other purposes."—*A communication.* *Letters Patent sealed.*

LAING.
1st September 1858.

1991. SAMUEL LAING, of Mill Wall, Engineer, for an invention for—"Improvements in the apparatus employed in the manufacture of gas." *Provisional protection only.*

WALKER.
BARNES.
2nd September 1858.

1992. JOSEPH WALKER, and JAMES BARNES, of Oakenshaw, in the County of Lancaster, Waterproof Cloth Manufacturers, for an invention for—"Improvements in blankets and lappings for machine and block printing and other similar purposes." *Letters Patent sealed.*

PRICE.
DAWES.
2nd September 1858.

1993. GEORGE PRICE, of Wolverhampton, in the County of Stafford, Iron Safe Manufacturer, and WILLIAM DAWES, of Wolverhampton, aforesaid, Engineer, for an invention for—"Improvements in steam-engines, steam-boilers, and apparatus connected therewith." *Letters Patent sealed.*

BLEAKLEY.
2nd September 1858.

1994. JAMES BLEAKLEY, of Accrington, in the County of Lancaster, Machinist, for an invention for—"Improvements in apparatus for communicating between the guard and engine driver of railway trains." *Letters Patent sealed.*

PITMAN.
2nd September 1858.

1995. JOHN TALBOT PITMAN, of the American and European Patent Offices, 67, Gracechurch Street, London, for an invention for—"An improvement or improvements in the construction of pneumatic condensing apparatus for the purpose of compressing air, aëriform or gaseous bodies, preparatory to their use as prime motors or for other purposes."—*A communication.* *Letters Patent sealed.*

WINSTONE.
2nd September 1858.

1996. BENJAMIN WINSTONE, of No. 100, Shoe Lane, London, Printing Ink, Manufacturer, for an invention for—"An improvement in the composition of copying and writing inks." *Provisional protection only.*

BELLANGER.
3rd September 1858.

1997. JEAN MARIE BELLANGER, of No. 41, Rue de Trevise, in the City of Paris, France, Shoemaker, for an invention for—"Caoutchouc socks or clogs with springs and without bridles." *Letters Patent sealed.*

ROBERTSON.
3rd September 1858.

1998. JAMES ROBERTSON, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in driving belts and springs." *Letters Patent sealed.*

HARKES.
3rd September 1858.

1999. WILLIAM HARKES, of Lostock Gralam, in the County of Chester, Agricultural Implement Maker, for an invention for—"An improved plough and pulverizer." *Letters Patent sealed.*

COCKER.
3rd September 1858.

2000. ELIAS COCKER, of Newton Heath, near Manchester, in the County of Lancaster, Mill Manager, for an invention for—"An improvement or improvements in machinery for spinning, twisting or doubling cotton, flax, silk, wool, or other fibrous materials." *Letters Patent sealed.*

BOUSFIELD. 3rd September 1858.

2001. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in knitting-machinery."—*A communication.* *Letters Patent sealed.*

BROOMAN. 3rd September 1858.

2002. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"An improved apparatus for supporting the skirts of ladies' dresses."—*A communication.* *Letters Patent sealed.*

GUYE. 4th September 1858.

2003. AUGUST GUYE, of Clerkenwell, in the County of Middlesex, for an invention for—"Improvements in the escapement of chronometers and watches." *Letters Patent sealed.*

LAVIE. 4th September 1858.

2004. RÉNE PROSPER LAVIE, of the City of Paris, in the Kingdom of France, for an invention for—"Improvements in mills." *Provisional protection only.*

BROOMAN. 4th September 1858.

2005. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improved apparatuses for receiving, containing, and delivering liquids."—*A communication from J. C. J. L'Hôte, of Paris.* *Letters Patent sealed.*

CHILD. 4th September 1858.

2006. WILLIAM HENRY CHILD, of Providence Row, in the County of Middlesex, Brush Manufacturer, for an invention for—"Improvements in hair and skin brushes." *Letters Patent sealed.*

PIGGOTT. BEARDMORE. 4th September 1858.

2007. WILLIAM PETER PIGGOTT, of No. 16, Argyle Street, Regent Street, London, and SEPTIMUS BEARDMORE, of No. 37, Upper Berkeley Street West, London, for an invention for—"Improvements in vinous and fermented liquors." *Letters Patent sealed.*

ANDREW. 4th September 1858.

2008. DAVID ANDREW, of Greenock, in the County of Renfrew, North Britain, Engineer, for an invention for—"Improvements in apparatus for obtaining motive-power." *Letters Patent sealed.*

NEWTON. 4th September 1858.

2009. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in fire-arms."—*A communication.* *Provisional protection only.*

HYDE. 4th September 1858.

2010. HIRAM HYDE, of Truro, Nova Scotia, Gentleman, for an invention for—"Improvements in the construction of carriage springs."—*A communication.* *Letters Patent sealed.*

HILLS. 4th September 1858.

2011. ARTHUR HILLS, of Blackheath, in the County of Kent, Gentleman, for an invention for—"A method or methods for the better securing the integrity or genuineness of bankers' checques or orders for money." *Provisional protection only.*

WARBURTON. 6th September 1858.

2012. THOMAS WARBURTON, of Astley, near the City of Manchester, Manager, for an invention for—"Improvements in machinery for preparing cotton and other fibrous materials, and for doubling yarn." *Provisional protection only.*

HOGA. PIGGOTT. BEARDMORE. 6th September 1858.

2013. STANISLAS HOGA, of No. 14, Nassau Street, Middlesex Hospital, London, WILLIAM PETER PIGGOTT, of No. 16, Argyle Street, Regent Street, London, and SEPTIMUS BEARDMORE, of No. 37, Upper Berkeley Street West, London, for an invention for—"Improvements in submarine electric telegraphs." *Letters Patent sealed; no specification filed.*

FIELDEN. 6th September 1858.

2014. JOHN FIELDEN, of Woodshade, near Todmorden, in the County of Lancaster, Machine Manufacturer, for an invention for—"An improvement or improvements in the construction or building of cops, whether of cotton, flax, silk, wool, or other fibrous materials, and also for certain utensils thereunto conducing or belonging." *Letters Patent sealed.*

RAMSBOTTOM. WATSON. 6th September 1858.

2015. JOHN RAMSBOTTOM, of Accrington, in the County of Lancaster, Engineer, and THOMAS WATSON, of Baxenden, in the said County, Overlooker, for an invention for—"Improvements in machinery or apparatus for weaving." *Provisional protection only.*

BROOMAN. 6th September 1858.

2016. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in printing or marking words or figures on papers, parcels, books, pages, tickets, and other articles requiring to be marked, printed, stamped, or addressed."—*A communication.* *Letters Patent sealed.*

DISTIN.
6th September 1858.

2017. HENRY JOHN DISTIN, of No. 9, Great Newport Street, Leicester Square, in the County of Middlesex, Musical Instrument Manufacturer, for an invention for —" Improvements in cornets and other musical wind instruments."
Letters Patent sealed.

SHANKS.
7th September 1858.

2018. JAMES SHANKS, of St. Helen's, in the County of Lancaster, Manufacturing Chemist, for an invention for—" Improvements in the manufacture of chlorine."
Letters Patent sealed.

CHAMPNESS.
7th September 1858.

2019. WILLIAM SWAIN CHAMPNESS, of 10, Osborn Terrace, Clapham Road, Surrey, Gentleman, for an invention for—" Improvements in syringes for male and female use." *Provisional protection only.*

FYFE.
7th September 1858.

2020. JAMES FYFE, of Greenock, in the County of Renfrew, North Britain, Brass Founder, for an invention for—" Improvements in stop cocks or valves."
Letters Patent sealed.

FULLWOOD.
7th September 1858.

2021. EDWARD FULLWOOD, of Queen's Square, Bristol, in the County of Gloucester, Cement Manufacturer, for an invention for—" Improvements in the manufacture of cements." *Provisional protection only.*

BUSSEY.
7th September 1858.

2022. GEORGE GIBSON BUSSEY, of No. 12, Arthur Street, New Oxford Street, in the County of Middlesex, Manufacturer of Leather Goods in general, for an invention for—" Holding and carrying cartridges."
Complete specification; Protection for SIX *months only.*

TUCKER.
7th September 1858.

2023. WILLIAM TUCKER, of the State of Rhode Island, of the United States of America, for an invention for—" An improved variable boring bit."
Complete specification; Letters Patent sealed.

BRIND.
7th September 1858.

2024. FREDERICK WILLIAM BRIND, of 14, Devonshire Street, Bishopsgate, in the City of London, Wine Merchant, for an invention for—" Improvements in sewing-machines."—*A communication.* *Letters Patent sealed.*

LARSONNIER.
BLANCHE.
7th September 1858.

2025. GUSTAV LARSONNIER, of Paris (France), Manufacturer, and AUGUSTE BLANCHE, of Paris, France, Civil Engineer, for an invention for—" Improvements in block-printing by hand, on tissues, paper, or other suitable fabrics."
Letters Patent sealed.

PELLISSIER.
PUYTORAC.
7th September 1858.

2026. LOUIS PELLISSIER, Mechanician, and JEAN PUYTORAC, Bailiff, both of Bordeaux, France, for an invention for—" Improvements in railway breaks."
Letters Patent sealed.

HOCKIN.
8th September 1858.

2027. BARTHOLOMEW HOCKIN, of Gateshead Iron Works, Gateshead-on-Tyne, for an invention for—" Apparatus for repairing and fitting dock gates and their machinery." *Letters Patent sealed.*

ROSTRON.
8th September 1858.

2028. JAMES ROTHWELL ROSTRON, of Edenfield, in the County of Lancaster, Gentleman, for an invention for—" An improved press for packing or pressing wool and other materials." *Provisional protection only.*

BUTLER.
8th September 1858.

2029. JOHN OCTAVIUS BUTLER, of Kirkstall Forge, near Leeds, in the County of York, Engineer, for an invention for—" Improvements in weighing-cranes."—*A communication.* *Provisional protection only.*

DICKSON.
8th September 1858.

2030. JOHN FARMERLEY DICKSON, of No. 6, Russell Street, Litchurch, near Derby, in the County of Derby, Engineer, for an invention for—" Improvements in the construction of taps, cocks, valves, hydrants, and other apparatus for regulating the flow of water and other fluids." *Provisional protection only.*

LAMB.
WHITE.
8th September 1858.

2031. ANDREW LAMB, of Southampton, and JOHN WHITE, of Cowes, for an invention for—" Improvements in life boats." *Letters Patent sealed.*

PARSONS.
8th September 1858.

2032. WILLIAM PARSONS, of Pratt Street, Lambeth, Manufacturing Engineer, for an invention for—" Improvements in apparatus to be applied to steam-boilers in order to keep the surfaces of the tubular flues free from incrustation."
Letters Patent sealed.

BARTHOLOMEW.
BELL.
8th September 1858.

2033. CHARLES BARTHOLOMEW, of Rotherham, and JOHN BELL, of Swinton, for an invention for—" Improvements in pistons and safety valve levers of steam and other engines." *Provisional protection only.*

PARSONS.
8th September 1858.

2034. WILLIAM PARSONS, of Pratt Street, Lambeth, Manufacturing Engineer, for an invention for—"Improvements in safety valves of steam-boilers."
Letters Patent sealed.

FAESSLER-PETZI.
8th September 1858.

2035. JEAN ULRICH FAESSLER-PETZI, of Lyons, in the Empire of France, Merchant, for an invention for—"An improved process for the boiling off of Tussah silks or wild silks." *Letters Patent sealed.*

BROOMAN.
8th September 1858.

2036. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"An improvement in the preparation of sulphate of quinine."—*A communication from P. G. Barry.*
Provisional protection only.

PETERS.
8th September 1858.

2037. ALEXANDER M^{c}EWAN PETERS, of Edinburgh, in the County of Midlothian, North Britain, Plumber, for an invention for—"Improvements in apparatus for regulating the flow or passage of fluids." *Letters Patent sealed.*

NEWBERRY.
9th September 1858.

2038. JOHN GUSTAVUS NEWBERRY, Iron Founder, Cardiff, County of Glamorgan, for an invention for—"An improved machine for tapping nuts, bolts, and screws, and other similar purposes." *Letters Patent sealed.*

LUIS.
9th September 1858.

2039. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"An improved life preserver raft of buoyant matress."—*A communication.* *Provisional protection only.*

PRISLEY.
9th September 1858.

2040. WILLIAM PRISLEY, residing at No. 7, Townley Place, Brandon Street, Walworth, in the Parish of Newington, in the County of Surry, for an invention for—"Advertising by day or night." *Letters Patent sealed.*

ROWLEY.
9th September 1858.

2041. JOHN ROWLEY, of Grosvenor Terrace, Camberwell, in the County of Surrey, for an invention for—"A new compound material applicable as a substitute for leather and leather-cloth in the manufacture of various useful and ornamental articles." *Letters Patent sealed.*

TAYLOR.
BAUGH.
9th September 1858.

2042. WILLIAM TAYLOR, of Nursling, in the County of Hants, Gentleman, and PETER ABSALOM BAUGH, of the same place, Gentleman, for an invention for—"An improved apparatus for propelling ships or other navigable vessels through water." *Provisional protection only.*

KOTTULA.
9th September 1858.

2043. CONSTANTINE NICOLAUS KOTTULA, of Liverpool, in the County of Lancaster, Soap Manufacturer, for an invention for—"Improvements in the manufacture of grease for lubricating purposes." *Letters Patent sealed.*

TATLOW.
HODGKINSON.
9th September 1858.

2044. JAMES TATLOW, of Wirksworth, in the County of Derby, Manufacturer, and HENRY HODGKINSON, of the same place, Engineer, for an invention for—"Improvements in railway breaks." *Letters Patent sealed.*

TIMMS.
9th September 1858.

2045. THOMAS TIMMS, of 1, Skelton Street, Greenwich, in the County of Kent, Coachman, for an invention for—"Improvements in bits." *Letters Patent sealed.*

WRIGHT.
WRIGHT.
9th September 1858.

2046. JOSEPH WRIGHT, Senior, and JOSEPH WRIGHT, Junior, of 5, Market Terrace, Caledonian Road, Islington, in the County of Middlesex, Eyelet and Punching Machine Manufacturers, for an invention for—"Improvements in machinery and apparatus used for preparing fabrics or materials to receive eyelet holes or fastenings, and fixing eyelet holes, and in fastenings for stays and other articles."
Letters Patent sealed.

NIMMO.
9th September 1858.

2047. WILLIAM NIMMO, of Manchester, Cotton Spinner and Manufacturer, for an invention for—"Improvements in weaving checks in power looms."
Provisional protection only.

BAADER.
9th September 1858.

2048. ANDREW BAADER, Junior, of Mittenwald on the Isar, Bavaria, for an invention for—"Improvements in the preparation of lubricating compounds."
Provisional protection only.

CLARK.
9th September 1858.

2049. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in materials for dyeing and printing."—*A communication from Professor Frédéric Kuhlmann, of Lille, in the Empire of France.* *Provisional protection only.*

CHESTER. 10th September 1858.

2050. JOSEPH LEMUEL CHESTER, of the City of Philadelphia, State of Pennsylvania, one of the United States of America, for an invention for—"Improvements in self-priming apparatus for fire-arms, and in the preparation of percussion primers to be used therewith."—*Partly a communication from a Foreigner residing in the United States of America.* *Letters Patent sealed.*

PARKER. 10th September 1858.

2051. JOHN PARKER, of Bradford, in the County of York, for an invention for—"Improvements in steam-boilers." *Provisional protection only.*

KNOWLES. 10th September 1858.

2052. JOHN KNOWLES, of Bolton-le-Moors, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in machinery for preparing cotton and other fibrous materials." *Letters Patent sealed.*

KOENIG. 10th September 1858.

2053. JEAN PROSPER KOENIG, of the Rue de Fleurus, Paris, in the Empire of France, for an invention for—"Improvements in a surgical instrument called a pneumatic catheter." *Letters Patent sealed.*

JOHNSON. 10th September 1858.

2054. JOHN HENRY JOHNSON, of, 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in jacquard machines."—*A communication from Michel Bouteille, resident at Paris, in the Empire of France.* *Provisional protection only.*

JOHNSON. 10th September 1858.

2055. FRANCIS WILLIAM JAMES JOHNSON, of London, in the County of Middlesex, for an invention for—"Improved means of communicating between the passengers, guard, and engine driver on railway trains." *Provisional protection only.*

DE MASSAS. 10th September 1858.

2056. FRANÇOIS ANTOINE EDMOND GUIRONNET DE MASSAS, of Gerrard Street, in the County of Middlesex, Civil Engineer, for an invention for—"An improved machine for decorticating and cleaning grain and seeds." *Letters Patent sealed.*

NEWTON. 10th September 1858.

2057. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in water-wheels."—*A communication.* *Letters Patent sealed.*

CHEETHAM. 10th September 1858.

2058. DAVID CHEETHAM, of Rochdale, in the County of Lancaster, Mechanist, for an invention for—"Improvements in machinery or apparatus for preparing for spinning and spinning cotton wool and other fibrous materials." *Letters Patent sealed.*

TOSHACH. 10th September 1858.

2059. WILLIAM TOSHACH, of the Railway Works, Bristol Road, Gloucester, in the County of Gloucester, Engineer, for an invention for—"Improvements in pile-driving machines." *Letters Patent sealed.*

JOURNET. 11th September 1858.

2060. PIERRE JOURNET, of Paris (France), Mechanician, for an invention for—"An improved toy." *Provisional protection only.*

HILL. 11th September 1858.

2061. LAURENCE HILL, of Port Glasgow, in the County of Renfrew, North Britain, Iron Ship Builder, for an invention for—"Improvements in apparatus for lowering or paying out ships' chains and anchors." *Letters Patent sealed.*

BAKER. 11th September 1858.

2062. WILLIAM BAKER, of the Town and County of Kingston-upon-Hull, Merchant and Cattle Food Manufacturer, for an invention for—"Improvements in preparing food." *Provisional protection only.*

GIESBERS. 11th September 1858.

2063. FREDERICK GIESBERS, of the Great Central Gas Works, Bow Common, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of coke." *Provisional protection only.*

COURTAULD. 11th September 1858.

2064. JOHN MINTON COURTAULD, of the firm of Samuel Courtauld and Company, of Braintree, in the County of Essex, Crape Manufacturers, for an invention for—"An improvement in clearing and preparing silk crapes, aërophanes, and other like fabrics, lisses, and other gauzes, and lace, and in machinery employed therein." *Letters Patent sealed.*

PAGE. 11th September 1858.

2065. HENRY PAGE, of Whitechapel, in the County of Middlesex, Glass Merchant, for an invention for—"An improved crown or round glass, and apparatus for manufacturing the same." *Letters Patent sealed.*

HINKS. 11th September 1858.

2066. JOSEPH LESTER HINKS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved tap or cock for drawing off and filtering liquids." *Letters Patent sealed.*

WIKOFF.
11th September 1858.

2067. HENRY WIKOFF, of Holly Lodge, Kensington Gore, in the County of Middlesex, Esquire, for an invention for—"A new tonic medicine for the cure of coughs and diseases of the chest."—*A communication.* *Provisional protection only.*

MANNING.
11th September 1858.

2068. WILLIAM HENRY MANNING, of Devizes, in the County of Wiltshire, Gentleman, for an invention for—"Improvements in candlesticks or holders." *Letters Patent sealed.*

KABERRY.
MITCHELL.
11th September 1858.

2069. LEONARD KABERRY, of Rochdale, in the County of Lancaster, Manager, and THOMAS MITCHELL, of the same place, Manager, for an invention for—"Improvements in machinery or apparatus for preparing for spinning and spinning cotton wool and other fibrous materials." *Letters Patent sealed.*

GOSSAGE.
11th September 1858.

2070. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of soda and potash." *Provisional protection only.*

THOMSON.
13th September 1858.

2071. WILLIAM THOMSON, of the City of Manchester, in the County of Lancaster, Commission Agent, for an invention for—"Improvements in bleaching yarn, warps, or similar materials." *Letters Patent sealed.*

FLAGEOLLET.
13th September 1858.

2072. GUSTAVE FLAGEOLLET, Manufacturer, at Vagney, Departement de Vosges, French Empire, for an invention for—"Improvements in self-acting mules." *Provisional protection only.*

DUGLÉRÉ.
13th September 1858.

2073. JEAN BAPTISTE ADOLPHE DUGLÉRÉ, of Paris, in the Empire of France, for an invention for—"A new method of separating solids from liquids, for disinfecting purposes." *Provisional protection only.*

SIEMENS.
13th September 1858.

2074. CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in refrigerators and in the treatment of the freezing or cooling material or materials used therewith." *Letters Patent sealed.*

HANBURY.
13th September 1858.

2075. SAMPSON HANBURY, of the Birmingham Patent Iron and Brass Tube Company, of Smethwick, in the County of Stafford, Manufacturer, for an invention for—"An improvement in the manufacture of tubes of copper, brass, and other metals." *Letters Patent sealed.*

FROST.
RIGG.
13th September 1858.

2076. ROBERT FROST, of the Steam Mills, Chester, and ARTHUR RIGG, of the Parkgate Road, Chester, for an invention for—"Improvements in apparatus for cleaning grain or seeds and bran." *Letters Patent sealed.*

TURNER.
13th September 1858.

2077. JOSHUA TURNER, of Gresham Street, in the City of London, Hatter, for an invention for—"Improvements in the manufacture of hats." *Letters Patent sealed.*

TOWELL.
13th September 1858.

2078. JOHN WILLIAM TOWELL, of Regent Street, in the County of Middlesex, for an invention for—"An improved helmet." *Provisional protection only.*

REDPATH.
14th September 1858.

2079. CHRISTOPHER JAMES REDPATH, of Limehouse, in the County of Middlesex, Engineer, for an invention for—"Improvements in ships' and other pumps." *Letters Patent sealed.*

RILEY.
14th September 1858.

2080. WILLIAM RILEY, of Bradford, in the County of Yorkshire, Overlooker, for an invention for—"Certain improvements in looms." *Letters Patent sealed.*

VIDIE.
14th September 1858.

2081. LUCIEN VIDIE, of Paris, in the Empire of France, and 4, South Street, Finsbury, London, Gentleman, for an invention for—"Improvements in apparatus for measuring the pressure of fluids by the flexion of diaphragms." *Letters Patent sealed.*

LUIS.
14th September 1858.

2082. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, in the County of Middlesex, for an invention for—"Coke and gas kilns."—*A communication.* *Letters Patent sealed.*

LUIS.
14th September 1858.

2083. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new system of moulding without foundry pattern."—*A communication.* *Complete specification; Letters Patent sealed.*

HOYLE.
HOWSON.
14th September 1858.

2084. WILLIAM JENNINGS HOYLE, of Huddersfield, in the County of York, and RICHARD HOWSON, of the Town and County of Lancaster, Engineers, for an invention for—"Improvements in arrangements and mechanism or apparatus for signalling by sound." *Provisional protection only.*

GRIMES.
14th September 1858.

2085. GEORGE CHARLES GRIMES, of Wandsworth, in the County of Surrey, for an invention for—"Improvements in fusees and in the means of manufacturing fusees." *Letters Patent sealed.*

LAKIN.
WAIN.
14th September 1858.

2086. ROBERT LAKIN, of Ardwick, in the County of Lancaster, Machinist, and JOHN WAIN, of the City of Manchester, in the said County, Mechanic, for an invention for—"Improvements in spinning-mules and other machines of that class used for spinning cotton and other fibrous substances." *Letters Patent sealed.*

BASTABLE.
14th September 1858.

2087. ALFRED HOPE JOHNSON BASTABLE, of Belgrave Works, Ranelagh Road, Pimlico, in the County of Middlesex, for an invention for—"Improvements in apparatus employed in the production of light."—*A communication.—Letters Patent sealed.*

MASSIA.
14th September 1858.

2088. SELIM ST. CLAIR MASSIA, of Pall Mall, in the County of Middlesex, for an invention for—"Improvements in stoves or fireplaces."—*A communication from Jules Cesar Thimotée Mousseron.* *Provisional protection only.*

COCHRANE.
14th September 1858.

2089. THE HONORABLE WILLIAM ERSKINE COCHRANE, of Osnaburgh Terrace, Regent's Park, in the County of Middlesex, for an invention for—"An improvement in the fastenings of railways." *Letters Patent sealed.*

FOWKE.
15th September 1858.

2090. FRANCIS FOWKE, of Park House, South Kensington, in the County of Middlesex, Captain in the Royal Engineers, for an invention for—"Improvements in fire-engines." *Letters Patent sealed.*

SMYTH.
15th September 1858.

2091. EDWARD SMYTH, of Brixton, in the County of Surrey, for an invention for—"Improvements in swimming belts and life preservers." *Letters Patent sealed.*

DORSETT.
15th September 1858.

2092. EDWARD DORSETT, of Old Broad Street, in the City of London, Tar and Naptha Distiller, for an invention for—"A portable carriage tank and furnace to be employed for the purpose of creosoting hop-poles or other timber." *Provisional protection only.*

TAYLOR.
15th September 1858.

2093. WILLIAM GARNETT TAYLOR, of Ashby-de-la-Zouch, in the County of Leicester, Gentleman, for an invention for—"Improvements in the manufacture of gloves." *Letters Patent sealed.*

DUKE.
16th September 1858.

2094. JAMES DUKE, Ship Builder, of Dover, in the County of Kent, for an invention for—"Improvements in life boats, which improvements are applicable to other boats." *Provisional protection* NOT *granted.*

REDFORD.
16th September 1858.

2095. GEORGE REDFORD, of Moseley, in the Parish of King's Norton, in the County of Worcester, for an invention for—"Making cartridges of metal or gutta-percha, with or without bullets, and for other purposes." *Provisional protection only.*

ALLISON.
16th September 1858.

2096. RICHARD ALLISON, of Gravesend, in the County of Kent, Engineer, for an invention for—"Improvements in apparatus for boring and sinking." *Provisional protection only.*

STRUVÉ.
16th September 1858.

2097. WILLIAM PRICE STRUVÉ, of Swansea, in the County of Glamorgan, Civil Engineer, for an invention for—"Improvements in apparatus for indicating strains on engine ropes or chains." *Provisional protection only.*

SCARTLIFF.
17th September 1858.

2098. JOHN ROBINSON SCARTLIFF, of Wolverhampton, in the County of Stafford, Mechanic, for an invention for—"An improved burglar's detector." *Complete specification; Letters Patent sealed.*

VASSEROT.
17th September 1858.

2099. CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"Machinery or apparatus for dressing and finishing fabrics."—*A communication from Pierre Labérie, residing at Mazamet (Tarn), in the Empire of France.* *Letters Patent sealed.*

PRAX.
17th September 1858.

2100. GABRIEL PRAX, of Paris (France), Manufacturer, for an invention for—"Improvements in apparatus for separating the liquid from the solid portions of fecal matters." *Provisional protection only.*

WELCH.
BIGGS.
17th September 1858.

2101. EDWARD WELCH, of St. John's Square, Clerkenwell, in the County of Middlesex, and JAMES BIGGS, of Norton Folgate, in the City of London, Tobacco Manufacturers, for an invention for—"An improved tobacco press."—*Letters Patent sealed.*

HADLEY.
17th September 1858.

2102. CHARLES HADLEY, of Lower Hurst Street, Birmingham, for an invention for—"Improvements in omnibusses, cabs, railway carriages, waggons, and other similar vehicles." *Letters Patent sealed.*

GRESHAM. 17th September 1858.

2103. JAMES HAREBOOTH GRESHAM, of the Town and County of Kingston-upon-Hull, Gentleman, for an invention for—"Improvements in copying letters, invoices, and other writings." *Letters Patent sealed.*

OSTERMOOR. 18th September 1858.

2104. GERHARD OSTERMOOR, of 37, Basinghall Street, London, for an invention for—"Ornamenting boas, victorines, and muffs." *Provisional protection only.*

LUIS. 18th September 1858.

2105. JOZÉ LUIS, Patent Agent, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"Improvements in the application of gutta-percha for clogs, galoches, shoes, and boots, and for the apparatus connected therewith."—*A communication.* *Letters Patent sealed.*

LUIS. 18th September 1858.

2106. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new manner for applying centrifugal force in the manufacture of the fecula of potatoes, of starch, of yeast, of porcelain paste, of paper pulp, and ultramarine, and the apparatus for carrying out the same."—*A communication.* *Letters Patent sealed.*

ALLEYNE. 18th September 1858.

2107. JOHN GAY NEWTON ALLEYNE, of Butterley Iron Works, Alfreton, in the County of Derby, for an invention for—"Improvements in the manufacture of wrought-iron beams and girders." *Letters Patent sealed.*

BEASLEY. 18th September 1858.

2108. JOSEPH BLACKWOOD BEASLEY, of Cashel, County Tipperary, Ireland, for an invention for—"Improvements in the construction of sporting and all other guns." *Letters Patent sealed.*

TURNER. 18th September 1858.

2109. ARCHIBALD TURNER, of Leicester, Manufacturer, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

GRYLLS. 18th September 1858.

2110. HENRY WILLIAM GRYLLS, of 47, Mark Lane, in the City of London, Licensed Custom House Agent, for an invention for—"Improvements in apparatus employed in submerging or laying down electric telegraph cables." *Letters Patent sealed.*

VICARS. VICARS. ASHMORE. SMITH. 18th September 1858.

2111. THOMAS VICARS, Senior, THOMAS VICARS, Junior, and THOMAS ASHMORE, Engineers, and JAMES SMITH, Baker, all of Liverpool, in the County Palatine of Lancaster, for an invention for—"Improvements for the consumption of smoke in moveable furnaces or chauffers for heating bakers' and other like ovens." *Letters Patent sealed.*

CHESTER. 20th September 1858.

2112. JOSEPH LEMUEL CHESTER, of the City of Philadelphia, in the State of Pennsylvania, in the United States of America, for an invention for—"An improved cartridge opener and ramrod fastener."—*Partly a communication.* *Provisional protection only.*

BARROW. 20th September 1858.

2113. HENRY BARROW, of Birmingham, in the County of Warwick, Saddler, for an invention for—"An improvement or improvements in cartridge boxes." *Letters Patent sealed.*

FIRMIN. 20th September 1858.

2114. HENRY FIRMIN, of Wapping, in the County of Middlesex, Carman, for an invention for—"A machine for cleansing chaff and other food for horses and cattle." *Letters Patent sealed.*

RIEPE. 20th September 1858.

2115. EWALD RIEPE, of Sheffield, in the County of York, Engineer, for an invention for—"An improvement in the casting of steel." *Letters Patent sealed; no specification filed.*

LEVI. 21st September 1858.

2116. GEORGE MONTEFIORE LEVI, of Maida Vale, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of iron in the blast furnace."—*A communication.* *Letters Patent sealed.*

COOK. 21st September 1858.

2117. THOMAS COOK, of Addiscombe, in the County of Surrey, Professor of Fortification, for an invention for—"Improvements in the method of preparing and securing bankers' and other crossed cheques against fraudulent erasure or removal." *Letters Patent sealed; no specification filed.*

DOWLER. CHELLINGWORTH. 21st September 1858.

2118. GEORGE DOWLER, of Birmingham, in the County of Warwick, Manufacturer, and THOMAS TERTIUS CHELLINGWORTH, of West Bromwich, in the County of Stafford, Civil and Mechanical Engineer, for an invention for—"An adjustable torsion spring for doors or other purposes." *Provisional protection only.*

DE PARIENTE. 21st September 1858.

2119. LEON DE PARIENTE, of Paris, France, Gentleman, for an invention for—"Improvements in apparatus to be applied to gas-burners, with the object of increasing the lighting power of the gas flame."—*A communication.* *Letters Patent sealed.*

MALVEZIN. 21st September 1858.	**2120.** JEAN CLEMENT EMILE MALVEZIN, of Paris (France), Gentleman, for an invention for—"Improvements in the manufacture of tubes, pipes, or mains for conducting liquids or gas, or for other similar purposes." *Provisional protection only.*
BETHELL. 21st September 1858.	**2121.** JOHN BETHELL, of No. 8, Parliament Street, Westminster, Gentleman, for an invention for—"Improvements in treating pyrites." *Letters Patent sealed.*
NEWTON. 21st September 1858.	**2122.** ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved machine for sweeping carpets and floors."—*A communication.* *Letters Patent sealed.*
DEWRANCE. 21st September 1858.	**2123.** JOHN DEWRANCE, of Barge Yard, in the City of London, Engineer, for an invention for—"An improvement in the construction of pianoforte frames." *Letters Patent sealed.*
PERKINS. 21st September 1858.	**2124.** ANGIER MARCH PERKINS, of Francis Street, Gray's Inn Road, for an invention for—"Improvements in surface condensers." *Letters Patent sealed.*
JOHNSON. 22nd September 1858.	**2125.** JAMES JOHNSON, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery or apparatus for washing, churning, color-mixing, or similar purposes." *Provisional protection only.*
HUBBELL. 22nd September 1858.	**2126.** THEODORE BYRON HUBBELL, of Regent Street, in the City of Westminster, Gentleman, for an invention for—"An improvement in hooped petticoats." —*A communication.* *Provisional protection only.*
HOPE. 22nd September 1858.	**2127.** JOHN HOPE, of the State of Rhode Island, of the United States of America, for an invention for—"An improved calico printing roller." *Letters Patent sealed.*
EMERY. 22nd September 1858.	**2128.** FRANCIS FAULKNER EMERY, of the State of Massachusetts, of the United States of America, for an invention for—"An improved sewing-machine."—*A communication from Sherburne C. Blodgett, residing in the State of Pensylvania, of the said United States.* *Complete specification; Letters Patent sealed.*
HOWE. 22nd September 1858.	**2129.** THOMAS HOWE, of Millwall, Poplar, for an invention for—"Improvements in smiths' forges." *Letters Patent sealed.*
BROOMAN. 22nd September 1858.	**2130.** RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in apparatus for printing shawls and other articles."—*A communication from J. M. Firnstahl, of Vienna.* *Letters Patent sealed.*
TYSSEN. 22nd September 1858.	**2131.** JACOBUS TYSSEN, of Rotterdam, in the Kingdom of Holland, Mariner, for an invention for—"An improved apparatus for indicating the speed of ships and other vessels." *Provisional protection only.*
HARRISON. 22nd September 1858.	**2132.** CHARLES WEIGHTMAN HARRISON, of Woolwich, in the County of Kent, Engineer, for an invention for—"Improvements in filters for purifying air and liquids." *Provisional protection only.*
CASTELAIN. 22nd September 1858.	**2133.** LÉON CASTELAIN, of 53, Newman Street, Oxford Street, County of Middlesex, for an invention for—"Converting all vegetable fibre, by aid of chemicals, into form to resemble horse hair." *Provisional protection only.*
SPENCE. 22nd September 1858.	**2134.** JAMES SPENCE, of Liverpool, in the County of Lancaster, Iron Merchant, for an invention for—"Improvements in the manufacture of steel, and in the furnaces employed in such manufacture." *Letters Patent sealed.*
CHILDS. 22nd September 1858.	**2135.** AUGUSTUS BRYENT CHILDS, of Gower Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in winnowing-machinery." *Letters Patent sealed.*
EARL OF DUNDONALD. 3rd September 1858.	**2136.** THOMAS EARL OF DUNDONALD, Admiral of the Red, of No. 12, Queen's Gate, South Kensington, in the County of Middlesex, for an invention for—"An improved machine or apparatus for tilling and preparing land for cultivation." *Provisional protection only.*
JALOUREAU. 23rd September 1858.	**2137.** ALFRED FAUVIN JALOUREAU, of Paris, in the French Empire, Manufacturer, for an invention for—"Improvements in the manufacture of pipes." *Letters Patent sealed; specification filed by order.*

M'Grady. 23rd September 1858.

2138. Hugh M'Grady, of 21, Bridge Street, Blackfriars, London, in the County of Middlesex, Engineer, for an invention for—"Improvements in the construction of flues, boiler, and other furnaces, and in certain appliances thereto."
Provisional protection only.

Hinde. 23rd September 1858.

2139. Thomas Callender Hinde, of Dudley, in the County of Worcester, Iron Merchant, for an invention for—"An improvement or improvements in the manufacture of iron and steel." *Letters Patent sealed.*

Grant. 23rd September 1858.

2140. Daniel Grant, of Ludgate Hill, in the City of London, Printer, for an invention for—"Improvements in colour printing-presses." *Letters Patent sealed.*

Wilson. 23rd September 1858.

2141. John Wilson, of 55, John Street, Sunderland, for an invention for—"Improvements in floating-docks." *Letters Patent sealed.*

Pickering. 24th September 1858.

2142. Peter Pickering, of Danzig, in the Kingdom of Prussia, Landed Proprietor, for an invention for—"An atmospheric engine." *Provisional protection only.*

Ford. Ford. 24th September 1858.

2143. Robert Ford, and William Ford, Gas Engineers, of No. 4, Nelson Street, Perth, Scotland, for an invention for—"Smoke consuming by means of a reciprocating or reversing fire." *Provisional protection only.*

Wright. 24th September 1858.

2144. Edwin Thomas Wright, of Wolverhampton, in the County of Stafford, Engineer, for an invention for—"A new or improved method of and apparatus for preventing the explosion of or injury to steam-boilers, through deficiency of water."
Letters Patent sealed.

Brooman. 24th September 1858.

2145. Richard Archibald Brooman, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in the manufacture of pile and cut pile fabrics, and in machinery employed therein."—*A communication from A. J. Hargez.*
Letters Patent sealed.

Henson. Henson. 24th September 1858.

2146. Henry Henson Henson, and William Frederick Henson, both of 38, Parliament Street, in the City of Westminster, for an invention for—"Improvements in waterproofing leather, woven fabrics, fibrous and other materials, and also of rendering them fireproof or partially fireproof." *Letters Patent sealed.*

Bodmer. 24th September 1858.

2147. Rudolph Bodmer, of 2, Thavies Inn, Holborn, in the City of London, for an invention for—"An improved apparatus for preventing explosion in steam-boilers."—*A communication.* *Letters Patent sealed.*

Vasserot. 24th September 1858.

2148. Charles Frédéric Vasserot, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"Improvements in the construction of spinning cards."—*A communication from Messrs. Esnouf and Governeur, residing at Sedan, Ardennes, in the Empire of France.* *Provisional protection only.*

Richards. 24th September 1858.

2149. Westley Richards, of Birmingham, Gun Manufacturer, for an invention for—"Improvements in fire-arms and cartridges." *Letters Patent sealed.*

Fuller. 24th September 1858.

2150. George Leedham Fuller, of Lombard Street, in the City of London, Civil Engineer, for an invention for—"Improvements in steam-engines."
Letters Patent sealed.

Turney. 24th September 1858.

2151. George Leonard Turney, of Aldermanbury, in the City of London, Needle Manufacturer, for an invention for—"An improved mode of packing pins for sale." *Letters Patent sealed.*

Delacroix. 25th September 1858.

2152. Arnoud Félix Delacroix, of Chartres, Department of Eure and Loir, in the Empire of France, Watchmaker, for an invention for—"Improvements in locomotive engines." *Provisional protection only.*

Romaine. 25th September 1858.

2153. Robert Romaine, of 12, Chapel Street, Bedford Row, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of steam cultivators, and in the means for operating such and other locomotive steam-engines." *Letters Patent sealed.*

Mennons. 25th September 1858.

2154. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"The separation of iron and steel from their combination with certain foreign bodies."—*A communication.* *Letters Patent sealed.*

Farncomb. 25th September 1858.

2155. Edward Farncomb, of Lambeth, in the County of Surrey, for an invention for—"Improvements in lilliputian fire-arms." *Provisional protection only.*

HALL.
25th September 1858.

2156. COLLINSON HALL, of Navestock, in the County of Essex, Esquire, for an invention for—"Improvements in apparatus for applying power to the cultivation of the soil." *Letters Patent sealed.*

CLARK.
25th September 1858.

2157. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in purifying natural phosphates of lime."—*A communication from Emile Constant Martin, residing at Paris, in the Empire of France, formerly Banker.* *Letters Patent sealed.*

DIEULAFAIT.
25th September 1858.

2158. JULES CLOVIS DIEULAFAIT, Merchant, of 2, Rue Sainte Appoline, Paris (Empire of France), and of 45, Essex Street, Strand, London, for an invention for—"A kind of garment which may receive different forms according to the will of the wearer." *Provisional protection only.*

GREAVES.
27th September 1858.

2159. SAMUEL HORRABIN GREAVES, of Radford Street Works, Sheffield, in the County of York, Manufacturer of Table Cutlery, for an invention for—"Improvements in the mode of manufacturing the blades of table and other knives." *Provisional protection only.*

BOUTTEVILLE.
27th September 1858.

2160. XAVIER BOUTTEVILLE, of Paris, in the French Empire, Merchant, for an invention for—"An improved neckcloth or tie, means of connecting ties to collars and bands, and an improved collar."—*A communication from a Foreigner residing in Paris.* *Provisional protection only.*

LANDER.
27th September 1858.

2161. WILLIAM LANDER, of the City of Bristol, Engraver, for an invention for—"Improvements in engraving and printing for the purpose of ornamenting china and earthenware." *Letters Patent sealed.*

BENZON.
27th September 1858.

2162. EDMUND LEOPOLD BENZON, of Sheffield, in the County of York, Steel Manufacturer, for an invention for—"Improvements in the manufacture of steel."—*A communication from Franz Anton Lohage, residing at Unna, in the Kingdom of Prussia.* *Letters Patent sealed.*

NEWTON.
27th September 1858.

2163. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in cigar holders or mouth pieces for cigars, and in pipes for smoking tobacco."—*A communication from James W. Evans, of New York, in the United States of America.* *Provisional protection only.*

LEWTHWAITE.
AMBLER.
28th September 1858.

2164. EDWIN LEWTHWAITE, of Halifax, in the County of York, Clock and Watch Maker, and GEORGE AMBLER, of Queen's Head, near Halifax, aforesaid, Clock and Watch Maker, for an invention for—"Improvements in clocks, watches, chronometers, and other time-pieces." *Provisional protection only.*

JONES.
28th September 1858.

2165. BENJAMIN JONES, Iron Founder, of the City of York, for an invention for—"Improvements in press wheel rollers or clod crushers, which improvements are also applicable to rollers for crushing, bruising, and pulverizing roots and other substances." *Letters Patent sealed.*

LINSEY.
28th September 1858.

2166. JOHN HENRY LINSEY, of No. 4, Grocer's Hall Court, in the City of London, for an invention for—"Certain improvements in binding or covering books." *Provisional protection only.*

MEAD.
28th September 1858.

2167. GEORGE MEAD, of No. 7, West Side, Cambridge Road, Bethnal Green, in the County of Middlesex, Ironmonger, for an invention for—"Improvements in the construction of tobacco pipes." *Provisional protection only.*

CLARK.
28th September 1858.

2168. JOSIAH LATIMER CLARK, of Adelaide Road, Haverstock Hill, in the County of Middlesex, for an invention for—"Improvements in coiling and securing telegraph cables preparatory to laying them from ships or vessels." *Provisional protection only.*

MANNING.
PAUL.
29th September 1858.

2169. JOHN MANNING, of Cambridge, Engineer, and THOMAS PAUL, of Houghton, in the County of Huntingdon, Miller, for an invention for—"An improved stone staff to be used in dressing millstones." *Letters Patent sealed.*

LUIS.
29th September 1858.

2170. JOSÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new method of fixing pastel pictures."—*A communication.* *Provisional protection only.*

OLD. PENDLETON. 29th September 1858.

2171. GEORGE OLD, of Aston, near Birmingham, in the County of Warwick, Warehouseman, and THOMAS PENDLETON, of Birmingham, aforesaid, Hook and Eye Manufacturer, for an invention for—"Improvements in dress fastenings, and in attaching dress fastenings to articles of dress." *Provisional protection only.*

BOUSFIELD. 29th September 1858.

2172. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in apparatus for and in the manufacture of paper bags and other similar articles."—*A communication.* *Letters Patent sealed.*

BRITT. 30th September 1858.

2173. THOMAS BRITT, of No. 9, St. Thomas Terrace, Church Street, Old Kent Road, Camberwell, in the County of Surrey, Engineer, for an invention for—"An improvement in the propelling of steam boats." *Letters Patent sealed.*

WRIGHT. 30th September 1858.

2174. JOSEPH WRIGHT, Engineer, of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in the mode of arranging and moving fire bars for locomotive, puddling, and other furnaces." *Letters Patent sealed.*

MORRISON. 30th September 1858.

2175. JOHN MORRISON, of Birmingham, in the County of Warwick, Machinist, for an invention for—"An improvement in or addition to sewing-machines." *Letters Patent sealed.*

TAYLOR. 30th September 1858.

2176. SAMUEL TAYLOR, of Rochdale, in the County of Lancaster, Mechanic, for an invention for—"Certain improvements in apparatus to be used as a fire-escape, which improvements are also applicable to other similar purposes." *Provisional protection only.*

CECCONI. 30th September 1858.

2177. LAURO CECCONI, of No. 12, Great Newport Street, in the County of Middlesex, Band Master, for an invention for—"Improvements in the construction of cornets, trumpets, horns, and other wind instruments of a like nature." *Letters Patent sealed.*

KINSEY. MORRISON. SMITHARD. 30th September 1858.

2178. HENRY KINSEY, of Nottingham, Machinist, WILLIAM HENRY MORRISON, and SAMUEL SMITHARD, also of Nottingham, Manufacturers, for an invention for—"Improvements in means or apparatus for the purpose of folding lace or other fabric, and also for cutting the same into lengths adapted to be used in the manufacture of bonnet and cap fronts, and for other purposes of millinery." *Provisional protection only.*

LEVY. 30th September 1858.

2179. REUBEN LEVY, of the City of Manchester, in the County of Lancaster, Manufacturing Clothier, for an invention for—"Improvements in the manufacture of coats, ladies' riding-habits, and other similar garments." *Provisional protection only.*

SIEMENS. 30th September 1858.

2180. CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the County of Middlesex, for an invention for—"Improvements in electric telegraphs."—*Partly a communication from Ernst Werner Siemens, residing at Berlin, in Prussia.* *Provisional protection only.*

NORMAND. 30th September 1858.

2181. AUGUSTIN NORMAND, of Havre, in the Empire of France, Ship Builder, for an invention for—"Improvements in constructing ships and vessels propelled by screw or such like propellers." *Letters Patent sealed.*

UHLHORN. 30th September 1858.

2182. GERHARD UHLHORN, of Grevenbroich, near Cologne, in the Kingdom of Prussia, for an invention for—"Improvements in applying motive-power to give motion to machinery." *Letters Patent sealed.*

RUSSELL. 30th September 1858.

2183. JOHN JAMES RUSSELL, of Wednesbury, in the County of Stafford, Iron Tube Manufacturer, for an invention for—"Improvements in furnaces for heating iron and steel suitable for the manufacture of welded tubes and other articles." *Letters Patent sealed.*

MONEY. 30th September 1858.

2184. FREDERICK JOHN MONEY, of Thaxted, in the County of Essex, Surgeon, for an invention for—"Improvements in the construction and adaptation of sewers." *Provisional protection only.*

BLAKE. 1st October 1858.

2185. WILLIAM BLAKE, of No. 16, Harley Street, in the Parish of St. Mary, Stratford-le-Bow, in the County of Middlesex, for an invention for—"An improved portable fire-escape." *Letters Patent sealed.*

NEWBON.
SMITH.
BROWN.
1st October 1858.

2186. JAMES THOMAS PETER NEWBON, and THOMAS SMITH, both of 63, Fenchurch Street, in the City of London, Naval Architects, and JAMES BROWN, of No. 37, Tollet Street, Mile End, in the County of Middlesex, Engineer, for an invention for—"An improved method of lifting and lowering ships' anchors."
Letters Patent sealed.

HIPP.
1st October 1858.

2187. MATTHAEUS HIPP, Technical Inspector of the Swiss Telegraphs, of Berne, in Switzerland, for an invention for—"Improvements in electric telegraphs."
Letters Patent sealed.

WILKINS.
DUNN.
1st October 1858.

2188. JOHN WALKER WILKINS, of Temple Chambers, Fleet Street, Telegraph Engineer, and JAMES BENJAMIN DUNN, of Great Winchester Street, Gentleman, both in the City of London, for an invention for—"Improvements in constructing electric telegraph cables." *Provisional protection only.*

BELCHER.
1st October 1858.

2189. SIR EDWARD BELCHER, of 40, Charing Cross, for an invention for—"Improvements in the manufacture of telegraphic cables." *Provisional protection only.*

PRESTON.
1st October 1858.

2190. THOMAS PRESTON, of Nottingham, Manufacturer, for an invention for—"Improvements in the manufacture of looped fabrics." *Letters Patent sealed.*

BRADBURY.
1st October 1858.

2191. HENRY BRADBURY, of the firm of Bradbury and Evans, of Whitefriars, in the City of London, for an invention for—"Improvements in producing printing-surfaces from engraved plates." *Provisional protection only.*

ROGERS.
2nd October 1858.

2192. JOSEPH ROGERS, of No. 9, Queen Square, Bartholomew Close, in the City of London, Ropemaker, for an invention for—"Improvements in submarine electric telegraph cables." *Letters Patent sealed.*

OWEN.
2nd October 1858.

2193. LEMUEL DOW OWEN, of No. 192, Tottenham Court Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in ploughs for digging up potatoes and for other purposes."—*A communication.*
Provisional protection only.

BRIERLEY.
2nd October 1858.

2194. WILLIAM BRIERLEY, the elder, of Cleckheaton, in the County of York, Machine Maker, for an invention for—"Improvements in looms for weaving carpets and other fabrics." *Letters Patent sealed.*

MONIER.
2nd October 1858.

2195. HYPOLITE MONIER, from Marseilles, in the Empire of France, and from 2, Francis Street, Golden Square, in the County of Middlesex, Manufacturer, for an invention for—"A new gas burner." *Letters Patent sealed.*

SAMUELSON.
2nd October 1858.

2196. BERNHARD SAMUELSON, of Banbury, Engineer and Agricultural Implement Manufacturer, for an invention for—"Improvements in the wheels of carts and other carriages to be used on common roads." *Letters Patent sealed.*

COLLINS.
2nd October 1858.

2197. HENRY GEORGE COLLINS, of Paternoster Row, in the City of London, for an invention for—"Improvements in the production of blocks or surfaces to be used in printing." *Letters Patent sealed.*

HOLMAN.
HOLMAN.
2nd October 1858.

2198. JOHN CHAPPELL HOLMAN, of London Street, Fitzroy Square, in the County of Middlesex, and EDWARD WALTER HOLMAN, of Grafton Street, Fitzroy Square, in the same County, Pianoforte Manufacturers, for an invention for—"An improved pianoforte action." *Letters Patent sealed.*

NEWTON.
2nd October 1858.

2199. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved governor for marine and other steam-engines."—*A communication.*
Provisional protection only.

STIMPSON.
2nd October 1858.

2200. SAMUEL STIMPSON, of Lower Road, Islington, in the County of Middlesex, Engineer, for an invention for—"An improved construction of fagot or fire-lighter." *Letters Patent sealed.*

DOLBY.
GATES.
4th October 1858.

2201. RICHARD DOLBY, and JOHN GATES, of Liverpool, in the County of Lancaster, Enamellers, for an invention for—"An improved process of transfer printing and ornamenting on glass and other transparent substances."
Provisional protection only.

NORMANDY.
4th October 1858.

2202. LOUIS A. NORMANDY, Junior, of 67, Judd Street, London, in the County of Middlesex, for an invention for—"An improved apparatus for the prevention of boilers exploding from a defficiency of water."—*A communication.*
Provisional protection only.

NORMANDY. 4th October 1858.

2203. LOUIS A. NORMANDY, Junior, of 67, Judd Street, London, in the County of Middlesex, for an invention for—"Improvements in the manufacture of sulphate of copper."—*A communication.* *Letters Patent sealed.*

VAN PETEGHEM. 4th October 1858.

2204. MAXIMILIEN VAN PETEGHEM, of Ghent, in the Kingdom of Belgium, Organ Builder, for an invention for—"Improvements in looms for weaving figured fabrics."—*A communication from his Brother, Edward Van Peteghem, residing in Belgium.* *Provisional protection only.*

TREVITHICK. 4th October 1858.

2205. FRANCIS TREVITHICK, of Penzance, in the County of Cornwall, for an invention for—"Improvements in applying sails and keels to boats and vessels." *Letters Patent sealed.*

MILLS. 5th October 1858.

2206. JAMES MILLS, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in machinery or apparatus for roving, slubbing, or spinning cotton and other fibrous materials." *Letters Patent sealed.*

BESSEMER. 5th October 1858.

2207. ANTHONY BESSEMER, of Upper Holloway, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of iron and steel, and in apparatuses to be employed therein." *Letters Patent sealed.*

OLDERSHAW. 5th October 1858.

2208. CHARLES EDWARD OLDERSHAW, of Aldershot, Major, Royal Artillery, for an invention for—"An improved method of constructing electric telegraph cables." *Provisional protection only.*

MENELAUS. 5th October 1858.

2209. WILLIAM MENELAUS, of Dowlais Iron Works, in the County of Glamorgan, Manager, for an invention for—"Improvements in machinery for straightening rails and wrought-iron bars." *Letters Patent sealed.*

HENRY. 5th October 1858.

2210. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the means of or arrangements for working steam expansively."—*A communication from Camille Polonceau.* *Letters Patent sealed.*

BROWN. 5th October 1858.

2211. JOHN HARCOURT BROWN, of the Abbey Mills, Romsey, in the County of Hants, for an invention for—"Improvements in the manufacture of projectiles." *Letters Patent sealed.*

HAMILTON. NASH. 5th October 1858.

2212. GEORGE HAMILTON, of St. Martin's le Grand, and WILLIAM HENRY NASH, of Poplar, Engineer, for an invention for—"Improvements in locks." *Letters Patent sealed.*

BROWN. 5th October 1858.

2213. JOHN HARCOURT BROWN, of the Abbey Mills, Romsey, in the County of Hants, for an invention for—"Improvements in the manufacture of cartridges." *Letters Patent sealed.*

MILNES. 5th October 1858.

2214. JOHN MILNES, of Sutton Mill, Cross Hills, near Leeds, in the County of York, Overlooker, for an invention for—"Improvements in weaving fabrics where cross weaving is employed." *Letters Patent sealed; no specification filed.*

LOVETT. 5th October 1858.

2215. GEORGE LOVETT, of East Street, Manchester Square, in the County of Middlesex, Medical Shampooer, for an invention for—"Improvements in portable apparatus for administering hot air, vapor, and shower baths." *Provisional protection only.*

JACOBY. ENSOR. 5th October 1858.

2216. MORITZ JOCOBY, and FREDERIC RAINFORD ENSOR, of Nottingham, for an invention for—"Improvements in the manufacture of bobbin net or twist lace, and other fabrics made in twist lace machines." *Letters Patent sealed.*

LUIS. 6th October 1858.

2217. JOZÉ LUIS, Patent Agent, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new method of joining sheet iron, cast iron, gutta-percha, and other tubes, by means of muffles."—*A communication.* *Letters Patent sealed.*

HEPPELL. 6th October 1858.

2218. GEORGE HEPPELL, of Newcastle-on-Tyne, Engineer, for an invention for—"Improvements in the construction of boilers, furnaces, and flues." *Provisional protection only.*

COLLIER. 6th October 1858.

2219. GEORGE COLLIER, of Halifax, in the County of York, for an invention for—"Improvements in winding-machines." *Letters Patent sealed.*

HARNETT. 6th October 1858.

2220. MAURICE HARNETT, of Moreton Street, Pimlico, in the County of Middlesex, Watchman, for an invention for—"Improvements in preventing incrustation in steam-boilers."—*A communication from John Warren Harnett, residing at Cincinnati, in the United States of America.* *Provisional protection only.*

'HILL.
6th October 1858.

2221. CHRISTOPHER HILL, of the Great Western Railway, Chippenham Station, for an invention for—"Improvements in omnibuses, and in apparatus for upholding the windows of omnibuses and other carriages." *Letters Patent sealed.*

RIDSDALE.
6th October 1858.

2222. JAMES RIDSDALE, of Stoke Newington, in the County of Middlesex, Accountant, for an invention for—"An improved reservoir or fountain pen." *Letters Patent sealed.*

MALAM.
6th October 1858.

2223. WILLIAM MALAM, of Clapham Road, in the County of Surrey, Gas Engineer, for an invention for—"Improvements in apparatuses for the manufacture of gas." *Letters Patent sealed.*

SCATTERGOOD.
SMITH.
6th October 1858.

2224. DANIEL SCATTERGOOD, of Nottingham, Machine Builder, and ROBERT WALKER SMITH, of Nottingham, Hosier, for an invention for—"Improvements in machinery for the manufacture of looped fabrics." *Letters Patent sealed.*

BAYLIS.
6th October 1858.

2225. CHARLES BAYLIS, of the Poultry, in the City of London, Solicitor, for an invention for—"An improved mode of constructing and arranging underground chambers in populous cities or towns, for the reception of gas and water pipes, and telegraph wires." *Letters Patent sealed.*

NICOLL.
7th October 1858.

2226. DONALD NICOLL, of the Firm of H. I. and D. Nicoll, 114, Regent Street, and 22, Cornhill, London, for an invention for—"Improvements in the manufacture of cloaks and other garments, and for their application to purposes to which they have not hitherto been applied." *Letters Patent sealed.*

THURNHAM.
7th October 1858.

2227. CHARLES HENRY THURNHAM, of Dalston, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction and application of certain mechanical arrangements to be adapted to the wheels of locomotives, carriages, and other vehicles, for facilitating their traction or draught." *Provisional protection only.*

SEYD.
BREWER.
7th October 1858.

2228. ERNEST JULIUS SEYD, Merchant, and JOHN WILLIAM NORTHWAY BREWER, Chemist, all of the City of London, for an invention for—"An improvement in the preparation of paper to render writing thereon indelible." *Provisional protection only.*

NOUVEAU.
7th October 1858.

2229. JEAN CLAUDE NOUVEAU, of 2, Rue Sainte Appoline, Paris, in the Empire of France, and of 45, Essex Street, Strand, London, for an invention for—"Improvements in stopping or stoppering bottles and other vessels containing non-gaseous liquids." *Letters Patent sealed.*

NAYLOR.
7th October 1858.

2230. DAVID NAYLOR, of Stockport, in the County of Chester, Carpet Manufacturer, for an invention for—"Improvements in looms for weaving carpets and other fabrics, and in the methods of manufacturing the same." *Letters Patent sealed.*

FELLOWS.
7th October 1858.

2231. NOAH FELLOWS, the younger, of West Derby, in the County of Lancaster, for an invention for—"Improvements in tea-kettles and other like domestic vessels." *Provisional protection only.*

RANSOME.
7th October 1858.

2232. FREDERICK RANSOME, of Ipswich, Civil Engineer, for an invention for—"Improvements in preserving wood." *Provisional protection only.*

HANDCOCK.
7th October 1858.

2233. ELIAS ROBISON HANDCOCK, of 57, Pall Mall, Westminster, and 16, North Frederick Street, Dublin, for an invention for—"Certain improvements in machinery applicable to engines to be worked by steam and other motive-power." *Provisional protection only.*

LUIS.
8th October 1858.

2234. JOZÉ LUIS, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"A new cutting and stamping press."—*A communication.* *Provisional protection only.*

LEETCH.
8th October 1858.

2235. JAMES LEETCH, of Margaret Street, Cavendish Square, in the County of Middlesex, Gun Maker, for an invention for—"An improved method of constructing fire-arms." *Provisional protection only.*

RIPPINGILLE.
8th October 1858.

2236. EDWARD VILLIERS RIPPINGILLE, of the Parish of Chorlton-upon-Medlock, Greenheys, Manchester, Artist, for an invention for—"The improvement of fire-arms and artillery." *Letters Patent sealed.*

WALLER.
8th October 1858.

2237. THOMAS WALLER, of Rose Lane, Ratcliff, Engineer, for an invention for—"Improvements in stoves and fire-places, for the prevention of smoke and the better ventilation of apartments." *Provisional protection only.*

MITCHELL.
MITCHELL.
ENGLAND.
8th October 1858.

2238. JOSEPH MITCHELL, Worsted Spinner, HIRAM MITCHELL, Manager, and THOMAS ENGLAND, Mechanic, all of Bradford, in the County of York, for an invention for—"Improvements in means, machinery, or apparatus employed in spinning wool, mohair, alpaca, silk, and other fibrous substances."
Letters Patent sealed.

SEARLE.
8th October 1858.

2239. RICHARD SEARLE, of Woodford Wells, in the County of Essex, Gentleman for an invention for—"Improvements in insulating and preserving and laying submarine and other telegraphic wires or cables." *Provisional protection only.*

NICHOLLS.
WALKER.
8th October 1858.

2240. ALFRED NICHOLLS, of Manchester, in the County of Lancaster, Merchant, and THOMAS WALKER, of Birmingham, in the County of Warwick, Clerk, for an invention for—"An improved spring hook, catch, or fastening."
Letters Patent sealed.

MUNN.
8th October 1858.

2241. WILLIAM AUGUSTUS MUNN, of Throwley House, near Feversham, in the County of Kent (late a Major in the East Kent Regiment of Militia), a Deputy Lieutenant, and Justice of the Peace, of the said County of Kent, for an invention for—"Improvements in horse hoes." *Letters Patent sealed.*

ROBERTS.
DALE.
8th October 1858.

2242. THOMAS ROBERTS, and JOHN DALE, of Manchester, in the County of Lancaster, Manufacturing Chemists, for an invention for—"An improved process for obtaining salts of soda and other alkalies." *Letters Patent sealed.*

LANCASTER,
8th October 1858.

2243. CHARLES WILLIAM LANCASTER, of New Bond Street, in the City of Westminster, Gun Maker, for an invention for—"A metal or metallic alloy especially adapted to the manufacture of fire-arms and ordnance." *Letters Patent sealed.*

FELTON.
8th October 1858.

2244. ALFRED FELTON, of 184, Brick Lane, Spitalfields, in the County of Middlesex, Currier, for an invention for—"Improvements in instruments used for inserting and fixing metal eyelets." *Provisional protection only.*

SMITH.
8th October 1858.

2245. JOSEPH TRAVERS SMITH, of Gray's Inn, in the County of Middlesex, for an invention for—"Improvements in electric cables."
Provisional protection only.

BIRCHLEY.
8th October 1858.

2246. EVAN BIRCHLEY, of Upper Severn Terrace, in the City of Worcester, Attorney's Clerk, for an invention for—"An improved construction of cartridge."
Letters Patent sealed.

GERHARD.
8th October 1858.

2247. FREDERICK WILLIAM GERHARD, of Tichborne Street, Haymarket, in the County of Middlesex, Mineral Surveyor, for an invention for—"Improvements in the manufacture of aluminium and sodium." *Letters Patent sealed.*

GALLIARD.
9th October 1858.

2248. ANTOINE EPHREM GALLIARD, 2, Seymour Place, St. James' Churchyard, Clerkenwell, Middlesex, for an invention for—"Making self-supplying portable fountains to play water or water perfumed." *Letters Patent sealed.*

BULL.
9th October 1858.

2249. CHARLES EDWARD BULL, of Wells, in the County of Norfolk, Gentleman, for an invention for—"An apparatus for containing and preserving articles of value from loss or damage in cases of shipwreck."
Complete specification; protection for SIX *months only.*

TATLOCK.
9th October 1858.

2250. JOHN TATLOCK, of Flookersbrook, near to the City of Chester, in the County of Chester, Gentleman, for an invention for—"Improvements in electric telegraphs, and in telegraphic cables or conductors for the conducting of electricity in in submarine and underground telegraphs." *Provisional protection only.*

HOPE.
9th October 1858.

2251. LEWIS HOPE, of Bishopsgate Church Yard, in the City of London, Merchant, for an invention for—"Improvements in electric telegraph cables."—*A communication.* *Letters Patent sealed.*

CROFTS.
9th October 1858.

2252. WILLIAM CROFTS, of Lenton Terrace, Park Side, Nottingham, Manufacturer, for an invention for—"Improvements in the manufacture of fabrics by bobbin net or twist lace machinery." *Letters Patent sealed.*

PASCOE.
THOMAS.
9th October 1858.

2253. JAMES BRAY PASCOE, and JOHN ROBERTS THOMAS, of Chacewater, in the County of Cornwall, for an invention for—"Improvements in condensing and gassing smoke, which are applicable also to forcing and drawing water, propelling ships, and drawing and forcing air, to be worked with animal, water, steam, or air power." *Provisional protection only.*

SCRIMSHAW. 9th October 1858.

2254. JOHN SCRIMSHAW, of 13, Johnson Street, Sheffield, in the County of York, Asphalte Road Maker, for an invention for—"Improvements in pumps." *Provisional protection only.*

MILLER. 11th October 1858.

2255. ALEXANDER MILLER, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in locomotive steam-engines."—*A communication from William Miller, of Chicago.—Letters Patent sealed.*

HOLROYD. 11th October 1858.

2256. JAMES HOLROYD, of Leeds, in the County of York, Cloth Dresser, for an invention for—"An improvement in the knives used for shearing woollen cloths and cloths made of wool and other materials." *Letters Patent sealed.*

VASSEROT. 11th October 1858.

2257. CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"Improvements in constructing reflectors."—*A communication from Antoine Marie Balencie, residing in Paris, in the Empire of France."* *Letters Patent sealed.*

SAXBY. 11th October 1858.

2258. JOHN SAXBY, Engineer, of Brighton, Sussex, for an invention for—"Improvements in apparatus for working signals on railways." *Letters Patent sealed.*

BEATTIE. 11th October 1858.

2259. JOSEPH BEATTIE, of Lawn Place, South Lambeth, in the County of Surrey, Engineer for an invention for—"Improvements in locomotive and other steam-engines." *Letters Patent sealed.*

COWEN. 11th October 1858.

2260. ROBERT COWEN, the younger, of the Town and County of the Town of Nottingham, Mechanical Draughtsman, for an invention for—"Improvements in dressing lace or other fabrics made of silk, cotton, or other material, and in apparatus employed therein." *Letters Patent sealed; no specification filed.*

HANCOCK. HANCOCK. 11th October 1858.

2261. JAMES LAMB HANCOCK, and FREDERICK LAMB HANCOCK, both of Pentonville, in the County of Middlesex, Manufacturers, for an invention for—"Improvements in implements for tilling, breaking up or pulverizing land, for sowing seeds, and for thinning out turnips and other crops." *Letters Patent sealed.*

ENGLAND. 11th October 1858.

2262. JOHN ENGLAND, of Charlotte Street, Fitzroy Square, London, Photographic Apparatus Maker, for an invention for—"Improvements in apparatus for cleaning the plates used in photography." *Provisional protection only.*

PLATT. 11th October 1858.

2263. JOSEPH PLATT, of Audlem, in the County Palatine of Chester, Gentleman, for an invention for—"Improvements in locks." *Provisional protection only.*

NICHOLSON. 11th October 1858.

2264. JOHN NICHOLSON, the younger, of Medow Street Works, Sheffield, in the County of York, Steel Manufacturer, for an invention for—"Improvements in machinery for cutting and winding strips or shreds of steel, silver, or other metal used for ladies' dresses, measuring-tapes, and other purposes in which the use of strips or shreds of metal are required." *Provisional protection only.*

VON SCHUTTENBACH. 11th October 1858.

2265. ANTON VON SCHUTTENBACH, of St. Petersburgh, for an invention for—"Improvements in lamps." *Complete specification; Letters Patent sealed.*

RIDDELL. 11th October 1858.

2266. THOMAS RIDDELL, of Carracow Terrace, Old Ford, Bow, in the County of Middlesex, Gentleman, for an invention for—"An improved arrangement for sustaining window sashes aud sliding panels." *Letters Patent sealed.*

STOW. 11th October 1858.

2267. MATTHEW STOW, of Leeds, in the County of York, Merchant, for an invention for—"Preventing or securing the detection of alterations or erasures in bankers' cheques and other similar instruments and the crossings thereof." *Provisional protection only.*

NEWTON. 11th October 1858.

2268. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for facilitating submarine explorations."—*A communication.* *Letters Patent sealed.*

SWINBURN. 12th October 1858.

2269. JOHN FIELD SWINBURN, of Birmingham, in the County of Warwick, Gun Manufacturer, for an invention for—"Improvements in fire-arms." *Letters Patent sealed.*

WRAY. 12th October 1858.

2270. LEONARD WRAY, of No. 5, Devonshire Street, Portland Place, London, Gentleman, for an invention for—"New and improved compounds for the coating or insulating of submarine electric telegraph wires, and which are also applicable to the coating or insulating of electric telegraph wires laid underground." *Letters Patent sealed.*

SHAW. COOPER. 12th October 1858.

2271. THOMAS COTTERILL SHAW, of Hanley, in the County of Stafford, Architect and Surveyor, and FREDERIC HENSHAW COOPER, of Hanley, aforesaid, Ironmonger, for an invention for—"A new or improved construction and mode of working engines by the agency of air or gasses in conjunction with electricity, for obtaining or producing motive-power." *Letters Patent sealed.*

JOHNSTON. ROSS. 12th October 1858.

2272. WILLIAM JOHNSTON, Merchant, and WILLIAM ROSS, Brass Founder, both of Glasgow, in the County of Lanark, North Britain, for an invention for—"Improvements in water-closets and taps or valves." *Letters Patent sealed.*

SMITH. 12th October 1858.

2273. WILLIAM SMITH, of Edinburgh, in the County of Midlothian, North Britain, Lithographer, for an invention for—"Improvements in transferring drawings or delineations in lithographic and zincographic processes." *Letters Patent sealed.*

BEADON. 12th October 1858.

2274. GEORGE BEADON, of Bathpool, in the County of Somerset, Captain in the Royal Navy, for an invention for—"Improvements in the construction of ships, boats, rafts, and vessels for passing through water, or through the atmosphere, or partly through the water and partly through the atmosphere." *Letters Patent sealed.*

GASSE. 12th October 1858.

2275. JEAN ALEXANDRE GASSE, of Paris, in the Empire of France, Merchant, for an invention for—"Improvements in railway breaks and in apparatus for working the same." *Letters Patent sealed.*

CUTHBERTSON. CUTHBERTSON. 12th October 1858.

2276. HENRY WILLIAM CUTHBERTSON, and GEORGE CUTHBERTSON, of Dundas Street, Monkwearmouth, Sunderland, in the County of Durham, for an invention for—"Improvements in lever purchases for ships' windlasses, pumps, and other similar purposes." *Provisional protection only.*

SAUTTER. 12th October 1858.

2277. MAURICE SAUTTER, of Paris, Boulevart Montmartre, 14, for an invention for—"Improvements in air engines."—*A communication from Mr. Joseph Gill, resident at Marsala, Sicily.* *Complete specification; Letters Patent sealed.*

PARKINS. 13th October 1858.

2278. JOSEPH PARKINS, of No. 1, Hanway Street, Oxford Street, in the County of Middlesex, Manufacturer of Envelopes, for an invention for—"Improvements in securing envelopes and in fastenings to be used therein." *Provisional protection only.*

PARKER. 13th October 1858.

2279. HENRY PARKER, of Sledmere Castle, in the East Riding of the County of York, Farmer and Land Agent, for an invention for—"An improved apparatus for the cultivation of land and other agricultural operations." *Letters Patent sealed.*

RIDLEY. 13th October 1858.

2280. ROBERT RIDLEY, of Low Wortley, in the County of York, Engineer, for an invention for—"Improvements in safety cages for mine shafts." *Letters Patent sealed.*

TREACHER. 13th October 1858.

2281. WILLIAM HIGGINBOTTOM TREACHER, of Blackfriars' Road, in the County of Surrey, Surgical Mechanician, for an invention for—"Improvements in respirators." *Provisional protection only.*

BRADBY. 13th October 1858.

2282. ARTHUR GRANVILLE BRADBY, of Reading, in the County of Berks, Gentleman, for an invention for—"An improvement in connection with collars and ties or other like articles of dress." *Provisional protection only.*

BENDA. 13th October 1858.

2283. ANTON BENDA, of 79, Basinghall Street, in the City of London, Importer of Foreign Goods, for an invention for—"Improvements in the manufacture of models of the human and other figures, to be used as toys, for tuition, and for other purposes."—*A communication.* *Letters Patent sealed.*

BRABY. BRABY. 13th October 1858.

2284. JAMES BRABY, and JAMES BRABY, Junior, of Bridge House Place, Newington Causeway, in the Borough of Southwark, Wheelwrights and Carriage Builders, for an invention for—"Improvements in wheels and wheeled carriages to be propelled by steam, horse, or other power, and in apparatus for retarding the same." *Letters Patent sealed.*

OLLERENSHAW. 14th October 1858.

2285. JOHN CHARLES OLLERENSHAW, of Manchester, in the County of Lancaster, Merchant, for an invention for—"An improvement in cotton gins."—*A communication from Lewis S. Chicester, of New York, U. S. A.* *Letters Patent sealed.*

LIDDLE. BOOTH. 14th October 1858.

2286. HENRY LIDDLE, of Tonge, near Middleton, in the County of Lancaster, Silk Manufacturer, and JOHN BOOTH, of the same place, Dyer, for an invention for—"Certain improvements in machinery or apparatus for polishing and finishing yarns or threads." *Provisional protection only.*

COWELL. 14th October 1858.	**2287.** LAMBERT COWELL, of Adelphi, in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparel affording the means for preserving life at sea and to prevent accidents to persons casually immersed in water." *Letters Patent sealed.*
COWPER. 14th October 1858.	**2288.** CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the manufacture of articles of hard vulcanized India-rubber and gutta-percha and similar gums."—*A communication from Gustavus Cuppers, resident at College Point, in Long Island, in the State of New York, in the United States of America.* *Letters Patent sealed.*
GORDON. 14th October 1858.	**2289.** ALEXANDER GORDON, Member of the Institution of Civil Engineers, in London, and residing at Little Fife House, Whitehall, in the City of Westminster, for an invention for—"Improvements for manufacturing cast iron, steel, and wrought iron."—*A communication from Antoine Galy Cazalat, of Paris.* *Letters Patent sealed.*
SMITH. 14th October 1858.	**2290.** JAMES RANDAL SMITH, of Glasgow, in the County of Lanark, North Britain, Gentleman, for an invention for—"Improvements in apparatus for propelling boats and vessels." *Provisional protection only.*
INGRAM. 14th October 1858.	**2291.** THOMAS INGRAM, of Bradford, in the County of York, Foreman, for an invention for—"Improvements in means or apparatus for signalling between the parts of a train of carriages." *Letters Patent sealed.*
CLARK. 14th October 1858.	**2292.** WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in tanning hides, and in apparatus employed therein."—*A communication from Antoine Louis Adolphe Favier.* *Letters Patent sealed.*
PERKES. 14th October 1858.	**2293.** SAMUEL PERKES, of Clapham, for an invention for—"Improvements in machinery for extracting oil from the cocoa nut and other vegetable matters." *Letters Patent sealed.*
MARTIN. 14th October 1858.	**2294.** HENRY MARTIN, of Old Kent Road, in the County of Surrey, and of 8, Scott's Yard, in the City of London, for an invention for—"Improvements in separating starch from gluten, in apparatus used therein, and also in preparing cement from gluten." *Letters Patent sealed.*
BAXTER. 14th October 1858.	**2295.** GEORGE BAXTER, of Northampton Square, in the County of Middlesex, for an invention for—"Improvements in colouring photographic pictures." *Letters Patent sealed.*
ARCHER. 14th October 1858.	**2296.** THOMAS ARCHER, Junior, of Dunston, near Gateshead, for an invention for—"Improvements in apparatus for preventing explosions of steam-boilers." *Letters Patent sealed.*
DIGGLE. 14th October 1858.	**2297.** SQUIRE DIGGLE, of Radcliffe, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in looms for weaving."—*Letters Patent sealed.*
NEWTON. 14th October 1858.	**2298.** WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved construction of cabin or state room for steam boats and other vessels."—*A communication.* *Letters Patent sealed.*
LOMAS. 14th October 1858.	**2299.** JOHN LOMAS, of Manchester, in the County of Lancaster, Calico Printer, for an invention for—"Improvements in the production of ornamental fabrics for ladies' dresses." *Provisional protection only.*
JACKSON. 15th October 1858.	**2300.** ROBERT RAYNSFORD JACKSON, of Blackburn, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in machinery or apparatus for sizeing yarn." *Letters Patent sealed; no specification filed.*
BACON. 15th October 1858.	**2301.** WILLIAM BACON, of Prestwich, in the County of Lancaster, Engineer, for an invention for—"Improvements in the mode of constructing valves, valve cocks, gates, and stop cocks, which may be used in steam engineering and for other purposes."—*A communication from J. R. and H. S. Robinson, of Clinton, in the United States of America.* *Letters Patent sealed.*

DAVIES.
15th October 1858.

2302. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in the manufacture of gloves and in the apparatus employed therein."—*A communication.* *Letters Patent sealed.*

MOORE.
15th October 1858.

2303. THOMAS MOORE, Brewer, of the firm of Tennant, Brothers, Exchange Brewery, Sheffield, in the County of York, for an invention for—"Improvements in refrigerators." *Letters Patent sealed.*

CLARKE.
15th October 1858.

2304. SAMUEL THOMAS CLARKE, of 30, Kildare Terrace, Westbourne Park, in the County of Middlesex, Gentleman, for an invention for—"A mode of crossing bankers' cheques and drafts." *Provisional protection only.*

WAINWRIGHT.
15th October 1858.

2305. JOHN WAINWRIGHT, of Birkenhead, in the County of Chester, Dental Surgeon, for an invention for—"Improvements in respirators." *Provisional protection only.*

BOUSFIELD.
15th October 1858.

2306. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in machinery for cutting the threads of wood screws."—*A communication from New York, United States of America.* *Letters Patent sealed.*

WILSON.
15th October 1858.

2307. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the County of Surrey, for an invention for—"Improvements in preparing compounds containing sulphur for preventing and destroying blight, mildew, and insects." *Letters Patent sealed.*

MARCUS.
16th October 1858.

2308. LAURENT MARCUS, of the Province of Algiers, in Africa, now in Paris, Gentleman, for an invention for—"An improved reaping-machine." *Letters Patent sealed.*

COULON.
GIRAUD.
16th October 1858.

2309. FIRMIN JOSEPH COULON, and SIMON GODEFROID GIRAUD, of 2, Rue Sainte Appoline, Paris, Empire of France, and of 45, Essex Street, Strand, London, for an invention for—"Improvements in the process of ornamenting skin and leather." *Letters Patent sealed.*

TREEBY.
16th October 1858.

2310. THOMAS WRIGHT GARDENER TREEBY, of No. 1, Westbourne Terrace Villas, Paddington, in the County of Middlesex, Gentleman, for an invention for—"An improvement in breech-loading fire-arms and cannon." *Letters Patent sealed.*

FRANCIS.
16th October 1858.

2311. HENRY FRANCIS, of No. 456, West Strand, Westminster, in the County of Middlesex, Engineer, for an invention for—"Machinery for making the springs of surgical trusses." *Provisional protection only.*

GILLARD.
16th October 1858.

2312. JOSEPH PIERRE GILLARD, of Paris (France), Civil Engineer, for an invention for—"Improvements in generating hydrogen, and in the means of and apparatus for applying the same to lighting and heating purposes." *Letters Patent sealed.*

HICK.
HARGREAVES.
HARWOOD.
16th October 1858.

2313. JOHN HICK, and WILLIAM HARGREAVES, both of the firm of Benjamin Hick and Son, of Bolton-le-Moors, in the County of Lancaster, Engineers, and ROBERT HARWOOD, of the same place, Millwright, in the employ of the said Benjamin Hick and Son, for an invention for—"Improvements in governors or regulators for prime movers." *Letters Patent sealed.*

JENSEN.
16th October 1858.

2314. PETER JENSEN, of Copenhagen, in the Kingdom of Denmark, but now residing at 7, Mount Gardens, Westminster Road, Lambeth, London, Engineer, for an invention for—"An improved apparatus for governing or regulating the speed of marine engines." *Provisional protection only.*

ROBERTSON.
16th October 1858.

2315. ALEXANDER ROBERTSON, of Lounsdale, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in applying starch and similar matters." *Provisional protection only.*

DUNN.
16th October 1858.

2316. ARTHUR DUNN, of 1, Dalston Terrace East, in the County of Middlesex, Fancy Soap Maker, for an invention for—"An improvement in preparing marking compounds to be used on linen and other fabrics." *Letters Patent sealed.*

NICKELS.
16th October 1858.

2317. BENJAMIN NICKELS, of Mitcham, in the County of Surrey, Analytical and Metallurgic Chemist, for an invention for—"Improvements in electric telegraphs." *Letters Patent sealed.*

CLAY.
18th October 1858.

2318. WILLIAM CLAY, of Ellesmere, in the County of Shropshire, Agricultural Implement Manufacturer, for an invention for—"Improvements in combined thrashing and dressing machines." *Letters Patent sealed.*

MASON.
18th October 1858.

2319. JOSEPH ANTHONY MASON, of Wirksworth, in the County of Derby, Land Surveyor, for an invention for—"Improvements in washing-machines, and apparatus for wringing and mangling." *Provisional protection only.*

POWELL.
18th October 1858.

2320. WILLIAM AUGUSTUS FREDERICK POWELL, of Bristol, in the County of Somersetshire, Potter, for an invention for—"Improvements in stopping or closing jars and bottles." *Provisional protection only.*

WEST.
18th October 1858.

2321. CHARLES WEST, 15, Mornington Place, Camberwell New Road, London, for an invention for—"Improvements in the mode of insulating and covering wire." *Letters Patent sealed.*

TIDMAN.
18th October 1858.

2322. ROBERT TIDMAN, of Jermyn Street, St. James', in the County of Middlesex, Engineer and Builder, for an invention for—"Improvements in machinery or apparatus for paying out and for raising electric telegraph cables." *Provisional protection only.*

BROOMAN.
18th October 1858.

2323. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in the manufacture of small chains and links for the same."—*A communication from H. Jesson, of Paris.* *Provisional protection only.*

CORNISH.
18th October 1858.

2324. KENNETH HENRY CORNISH, of 17, Chapel Street East, May Fair, W., Surgeon, for an invention for—"A new mode of advertising." *Provisional protection only.*

NEWTON.
18th October 1858.

2325. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in apparatus for lighting gas and other lamps."—*A communication.* *Provisional protection only.*

DRAYSON.
BINNEY.
18th October 1858.

2326. ALFRED WILKS DRAYSON, of Plumstead, in the County of Kent, Captain in the Royal Artillery, and CHARLES RICHARD BINNEY, of Woolwich, in the same County, Captain in the Royal Engineers, for an invention for—"Improvements in submarine telegraphic cables." *Letters Patent sealed.*

SMITH.
18th October 1858.

2327. JOHN SMITH, of Newport, in the County of Salop, Engineer, for an invention for—"Improvements in rough shoeing beasts of draught and burden." *Letters Patent sealed.*

WALKER.
19th October 1858.

2328. EDMUND WALKER, of London Street, in the City of London, for an invention for—"An improved filter."—*A communication.* *Letters Patent sealed.*

WHITWORTH.
19th October 1858.

2329. JOSEPH WHITWORTH, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in guns, gun carriages, and ammunition." *Letters Patent sealed.*

BATHO.
BAUER.
19th October 1858.

2330. WILLIAM FOTHERGILL BATHO, and EUGENE MORITZ BAUER, of Salford, near Manchester, in the County of Lancaster, Engineers and Tool Makers, for an invention for—"Improvements in screws, worms, and wheels, and in machinery or apparatus for cutting the same." *Provisional protection only.*

OWEN.
DUCKWORTH.
19th October 1858.

2331. JOHN OWEN, and HINDLE DUCKWORTH, both of Blackburn, in the County of Lancaster, Machinists, for an invention for—"Improvements in looms." *Letters Patent sealed.*

ALLAN.
WHIMSTER.
GRAY.
19th October 1858.

2332. ALEXANDER ALLAN, Engineer, THOMAS WHIMSTER, Gas Engineer, and ROBERT GRAY, Gas Inspector, all of Perth, in the County of Perth, North Britain, for an invention for—"Improvements in steam-boilers, also applicable in part to gas meters, lamps, and lubricating and other apparatus requiring a constant liquid level, and in part to pressure indicating apparatus." *Letters Patent sealed.*

RICHMOND.
19th October 1858.

2333. JOHN RICHMOND, Engineer and Machinist, of 21, Carlisle Terrace, Fairfield Road, Bow, in the County of Middlesex, for an invention for—"The construction of valves applicable especially to water-meters and other instruments for measuring fluids, and all hydraulic purposes." *Provisional protection only.*

NEWTON. 19th October 1858.

2334. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in apparatus for washing clothes and other articles."—*A communication.*

Letters Patent sealed.

NEWTON. 19th October 1858.

2335. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the hanging and arranging of cylindrical, conical, or spiral steel railroad springs for railway carriages."—*A communication.* *Letters Patent sealed.*

GOSSAGE. 19th October 1858.

2336. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the utilization of alkali waste."

Provisional protection only.

BROOMAN. 19th October 1858.

2337. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in propelling vessels."—*A communication from J. C. Meunier, of Paris.* *Letters Patent sealed.*

GRANT. 19th October 1858.

2338. JOHN GRANT, of Hyde Park Street, in the County of Middlesex, Captain late Royal Artillery, for an invention for—"Improvements in constructing and arranging ovens suitable for baking bread." *Letters Patent sealed.*

RIDDLE. 19th October 1858.

2339. WILLIAM RIDDLE, of Westbourne Terrace, Barnsbury Park, in the County of Middlesex, for an invention for—"Improvements in packing or forming merchandize or goods into bales." *Letters Patent sealed.*

STIEBEL. GLASSFORD. 20th October 1858.

2340. LEOPOLD STIEBEL, of the City of London, Merchant, and CHARLES FINLAY OLIPHANT GLASSFORD, of Greenwich, in the County of Kent, Chemist, for an invention for—"Improvements in machinery for moulding washing blues and other materials while in a plastic state." *Provisional protection only.*

CLEGG. 20th October 1858.

2341. ROBERT DAWSON CLEGG, of Manchester, in the County of Lancaster, Gentleman, for an invention for—"Improvements in screws."—*Letters Patent sealed.*

STORTZ. 20th October 1858.

2342. PHILIP CHRISTIAN STORTZ, of Havelock Buildings, Bold Street, Liverpool, in the County of Lancaster, Photographer, for an invention for—"Improvements in the materials for photographic plates." *Provisional protection only.*

GRIFFITHS. 20th October 1858.

2343. ROBERT GRIFFITHS, of 69, Mornington Road, Regent's Park, London, Engineer, for an invention for—"Improvements in baths." *Letters Patent sealed.*

TWELLS. 20th October 1858.

2344. THOMAS TWELLS, of the Town and County of the Town of Nottingham, Mechanist, for an invention for—"Improvements in machinery for embroidering or ornamenting woven, looped, or lace fabrics." *Letters Patent sealed.*

WAINWRIGHT. 20th October 1858.

2345. JOHN WAINWRIGHT, of Birkenhead, in the County of Chester, Dental Surgeon, for an invention for—"Improvements in ventilating houses and other places." *Letters Patent sealed.*

CLARKE. 20th October 1858.

2346. SAMUEL THOMAS CLARKE, of 30, Kildare Terrace, Westbourne Park, in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparatus for crossing bankers' cheques and drafts." *Letters Patent sealed.*

ALGER. 21st October 1858.

2347. CHARLES COFFEY ALGER, of Newburgh, in the County of Orange, of the State of New York, in the United States of America, but now at No. 41, Parliament Street, Westminster, in the County of Middlesex, Gentleman, for an invention for—"Improvements in cupola furnaces." *Provisional protection only.*

MARLAND. MARLAND. 21st October 1858.

2348. JONAS MARLAND, of Sun Vale Iron Works, Walsden, in the County of Lancaster, and SAMUEL MARLAND, also of Sun Vale Iron Works, Walsden, in the County of Lancaster, Machinists, for an invention for—"Certain improvements in power looms." *Letters Patent sealed.*

CLERC. PIAGET 21st October 1858.

2349. PETER CLERC, and ADOLPHE PIAGET, of No. 4, Newcastle Place, Clerkenwell, Middlesex, for an invention for—"An improved method of winding watches, chronometers, and time pieces, without the use of a seperate key."

Provisional protection only.

WILLIAMS. EYTON. 21st October 1858.

2350. CHARLES WYE WILLIAMS, of Liverpool, Gentleman, and GEORGE EYTON, of the same Town, in the County of Lancaster, Chemist, for an invention for—"Improvements in the construction of locomotive and other steam-boilers."

Letters Patent sealed.

NAPIER.
21st October 1858.

2351. JAMES MURDOCH NAPIER, of York Road, Lambeth, Engineer, for an invention for—"Improvements in printing presses and printing machines."
Letters Patent sealed.

HORN.
21st October 1858.

2352. EDWIN BARTHOLOMEW HORN, of the State of Massachusetts, of the United States of America, for an invention for—"An improved compensation apparatus for a hair spring balance for a watch or time-piece."
Complete specification; Letters Patent sealed.

REDFORD.
21st October 1858.

2353. GEORGE REDFORD, of Moseley, in the Parish of King's Norton, in the County of Worcester, for an invention for—"A circular and self-acting cartridge pouch."
Provisional protection only.

BALDWIN.
21st October 1858.

2354. JAMES BALDWIN, Junior, of Birmingham, in the County of Warwick, Paper Manufacturer, for an invention for—"Improvements in files or holders for papers, letters, bags, and other similar articles."
Letters Patent sealed.

BROOMAN.
21st October 1858.

2355. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in knitting-frames."—*A communication from Madame Hammerlin.*
Provisional protection only.

BROOMAN.
21st October 1858.

2356. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in apparatuses for regulating the supply of fluids."—*A communication from P. J. Guyet, of Paris.*
Provisional protection only.

BROOMAN.
21st October 1858.

2357. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in cocks, taps, and other apparatuses for regulating the flow of fluids."—*A communication from P. J. Guyet, of Paris.*
Provisional protection only.

JOHNSON.
21st October 1858.

2358. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for lubricating railway axles and other bearings."—*A communication.*
Letters Patent sealed.

BURRIDGE.
22nd October 1858.

2359. JOSEPH BURRIDGE, House Painter and Decorator, of No. 151, Great Portland Street, in the County of Middlesex, for an invention for—"Improvements in firelighters."
Letters Patent sealed; no specification filed.

WHITEHALL.
22nd October 1858.

2360. EDWIN WHITEHALL, of Bromley Place, in the Parish of St. Nicholas, Town and County of Nottingham, for an invention for—"Certain improvements in machinery for the manufacture of cap fronts."
Provisional protection only.

BAGNALL.
BAGNALL.
22nd October 1858.

2361. JAMES BAGNALL, and WILLIAM BAGNALL, of Westbromwich, in the County of Stafford, Ironmasters, for an invention for—"An improvement in the manufacture of iron."
Letters Patent sealed.

SHAW.
22nd October 1858.

2362. ALEXANDER SHAW, of the Earle's Field Works, Grantham, in the County of Lincoln, Leather Dresser, and Fellmonger, and Glue and Parchment Manufacturer, for an invention for—"A new method or mode of raising nap on the linings of sheep skins."
Letters Patent sealed.

WALLER.
22nd October 1858.

2363. RICHARD WALLER, of No. 50, Baker Street, Portman Square, in the County of Middlesex, for an invention for—"Improvements in obtaining motive-power, and in apparatus connected therewith."
Letters Patent sealed.

KENNEDY.
ARMSTRONG.
22nd October 1858.

2364. ROBERT KENNEDY, and JAMES ARMSTRONG, both of Lisburn, in the Kingdom of Ireland, for an invention for—"An improved kiln for drying grain."
Letters Patent sealed.

CLAY.
22nd October 1858.

2365. CHARLES CLAY, of Walton Grange, Wakefield, in the County of York, for an invention for—"Improvements in apparatus for harrowing, scarifying, and cultivating land."
Letters Patent sealed.

PALMER.
PALMER.
23rd October 1858.

2366. EDWIN PALMER, of Thetford, in the County of Suffolk, Engineer, and EDWARD PALMER, of Thetford, aforesaid, Iron Founder, for an invention for—"Improvements in machinery or apparatus for cutting hay, straw, or other similar substances."
Letters Patent sealed.

STORTZ. 23rd October 1858.

2367. PHILIP CHRISTIAN STORTZ, of Havelock Buildings, Bold Street, Liverpool, in the County of Lancaster, Photographer, for an invention for—"An improvement for taking life size pictures from smaller pictures, either with or without the aid of photography." *Provisional protection only.*

SHEPARD. 23rd October 1858.

2368. EDWARD CLARENCE SHEPARD, of Jermyn Street, Westminster, in the County of Middlesex, Gentleman, for an invention for—"Improvements in electric lamps."—*A communication.* *Letters Patent sealed.*

BODMER. 23rd October 1858.

2369. RUDOLPH BODMER, of 2, Thavies Inn, Holborn, in the City of London, for an invention for—"An improved toy or plaything for children."—*A communication from Charles Thévenot, of Paris, in the Empire of France.* *Letters Patent sealed.*

DAVIES. 23rd October 1858.

2370. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in weaving."—*A communication.* *Provisional protection only.*

MARTIN. 23rd October 1858.

2371. JOHN COWDERY MARTIN, of Fern Cottage, Charlewood Road, Putney, in the County of Surrey, Gentleman, for an invention for—"An improvement in the manufacture of metal moulds for moulding plastic substances." *Provisional protection only.*

NEWTON. 23rd October 1858.

2372. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in pumps."—*A communication.* *Letters Patent sealed.*

NEWTON. 23rd October 1858.

2373. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in telegraphic apparatus."—*A communication.* *Letters Patent sealed.*

COTTAM. 25th October 1858.

2374. EDWARD COTTAM, of Lower Belgrave Place, Pimlico, in the County of Middlesex, Engineer, for an invention for—"Improvements in the internal fittings of carriages." *Provisional protection only.*

MASON. 25th October 1858.

2375. MARK MASON, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in elevating stands or stages for the use of hose-man in extinguishing fires, also for decorating windows, public buildings, and other purposes." *Provisional protection only.*

WELCH. MARGETSON. 25th October 1858.

2376. JOSEPH JAMES WELCH, and JOHN STEWART MARGETSON, both of Cheapside, in the City of London, for an invention for—"Improvements in the manufacture of scarfs for gentlemen's wear." *Letters Patent sealed.*

FOWKE. 25th October 1858.

2377. FRANCIS FOWKE, of Park House, South Kensington, in the County of Middlesex, Captain in the Royal Engineers, for an invention for—"Improvements in umbrellas and parasols." *Letters Patent sealed.*

ROBB. 25th October 1858.

2378. JOHN ROBB, of Aberdeen, in the County of Aberdeen, North Britain, Merchant, for an invention for—"Improvements in propellers for ships and boats." *Letters Patent sealed.*

ASHWORTH. ASHWORTH. 25th October 1858.

2379. THOMAS ASHWORTH, and JOSEPH ASHWORTH, of Pendleton, in the County of Lancaster, Manufacturers, for an invention for—"Certain improvements in power looms for weaving." *Letters Patent sealed.*

CRADDOCK. WHITE. 25th October 1858.

2380. WILLIAM CRADDOCK, and JOHN WHITE, both of Archer Street, St. James', in the County of Middlesex, Harness Platers, for an invention for—"Improvements in the connecting links of harness hames." *Letters Patent sealed.*

KENT. 25th October 1858.

2381. GEORGE KENT, of High Holborn, in the County of Middlesex, Machinist, for an invention for—"An improved churn."—*A communication.* *Letters Patent sealed.*

NEWTON. 25th October 1858.

2382. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in the manufacture of candles."—*A communication.* *Letters Patent sealed.*

PARKHURST. 25th October 1858.

2383. STEPHEN ROSSIN PARKHURST, of the City and State of New York, United States of America, for an invention for—"Improvements in cotton gins." *Letters Patent sealed.*

MASON. 26th October 1858.	**2384.** MARK MASON, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in self-acting feeding machines or apparatus for all descriptions of steam or other letter-press printing machines or presses." *Provisional protection only.*
NEWTON. 26th October 1858.	**2385.** ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for pulverizing, kneading, pressing, and moulding clay and other plastic materials."—*A communication.* *Letters Patent sealed.*
WIELAND. 26th October 1858.	**2386.** CHARLES WIELAND, of Warkworth Terrace, Commercial Road, Limehouse, in the County of Middlesex, for an invention for—"Certain improvements in chronometers, watches, and such like time-keepers." *Provisional protection only.*
GOODFELLOW. 27th October 1858.	**2387.** BENJAMIN GOODFELLOW, of Hyde, in the County of Chester, Engineer, for an invention for—"Certain improvements in steam-engines." *Letters Patent sealed.*
LUIS. 27th October 1858.	**2388.** JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new syphon water-wheel receiving its water without destroying the water level."—*A communication.* *Provisional protection only.*
LUIS. 27th October 1858.	**2389.** JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex (Patent Agent), for an invention for—"A new machine for boring,"—*A communication.* *Letters Patent sealed.*
BLEAKLEY. 27th October 1858.	**2390.** JAMES BLEAKLEY, of Accrington, in the County of Lancaster, Machinist, for an invention for—"Improvement in boilers, flues, and the methods of fixing the same." *Provisional protection only.*
BEAU. 27th October 1858.	**2391.** ADOLPHE PAUL AUGUSTE BEAU, of 152, Regent Street, London, for an invention for—"A pocket stereoscope." *Letters Patent sealed.*
KINSEY. 27th October 1858.	**2392.** JOHN KINSEY, of Brighton, Engineer, for an invention for—"Improvements in steam-engines and pumps." *Letters Patent sealed.*
CHEYNE. 27th October 1858.	**2393.** CHARLES CHEYNE, of Great George Street, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in the construction of floors and ceilings." *Provisional protection only.*
WRAY. 27th October 1858.	**2394.** LEONARD WRAY, of No. 5, Devonshire Street, Portland Place, in the County of Middlesex, for an invention for—"The preparation and application of a substitute for gutta-percha, caoutchouc, and similar substances." *Provisional protection only.*
SPEIGHT. 27th October 1858.	**2395.** GEORGE SPEIGHT, of 19, Woodbridge Street, Clerkenwell, in the County of Middlesex, Artist in Hair, for an invention for—"Improved plaits and curls or ringlets for head-dresses or ornaments or additions to the natural hair, and an improved apparatus for the manufacture of curls or ringlets." *Letters Patent sealed.*
MASON. 27th October 1858.	**2396.** MARK MASON, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in letter-press printing machines." *Provisional protection only.*
GARDINER. 27th October 1858.	**2397.** PERRY GREEN GARDINER, of the City, County, and State of New York, Mechanical Engineer (U. States of America), for an invention for—"Furnaces for reheating steel preparatory to hardening, tempering, or annealing." *Provisional protection only.*
ALMOND. 27th October 1858.	**2398.** THOMAS ALMOND, of 22, Pickering Place, Paddington, in the County of Middlesex, Engineer, for an invention for—"Improvements in furnaces for the better combustion of smoke." *Letters Patent sealed.*
MOTT. 27th October 1858.	**2399.** JOHN WILLIAM MOTT, of Lea Bridge Road, in the County of Middlesex, for an invention for—"Improvements in pouches of india-rubber for holding tobacco or other substances." *Letters Patent sealed.*
VARLEY. 28th October 1858.	**2400.** DUXBURY VARLEY, of Over Darwen, in the County of Lancaster, for an invention for—"An improved picker for looms." *Provisional protection only.*

CASENTINI. BARNARD. 28th October 1858.

2401. GIOVANNI MARIANO CASENTINI, and JAMES ORME BARNARD, both of Hercules Buildings, Lambeth, in the County of Surrey, Architectural Modellers, and Copartners in Trade, for an invention for—"A certain composition to be used in the manufacture of articles composed of or made with plaster of Paris and other similar substances," *Letters Patent sealed.*

GARDINER. 28th October 1858.

2402. PERRY GREEN GARDINER, of the City, County, and State of New York, in the United States of America, for an invention for—"A new and useful apparatus for cooling and preserving an equable and low temperature in the oil or composition or other fluid mixture used for the purposes of tempering, annealing, or hardening steel." *Provisional protection only.*

WESTERBY. 28th October 1858.

2403. JOHN WESTERBY, of Upper Aspley, Huddersfield, in the County of York, Engineer, for an invention for—"An improved application of steam to vessels filled with oil, tallow, or other materials for lubricating the cylinders of steam-engines of high or low pressure." *Letters Patent sealed.*

POOLEY. 28th October 1858.

2404. CHARLES POOLEY, of the City of Manchester, Cotton Spinner, for an invention for—"Certain improvements in and applicable to carding-engines and other machines for preparing cotton and other fibrous materials." *Letters Patent sealed.*

RAILTON. 28th October 1858.

2405. TIMOTHY RAILTON, of the City of Manchester, Manufacturer, for an invention for—"Improvements in the apparatus employed in the manufacture of cap or bonnet fronts." *Letters Patent sealed.*

HEYWOOD. 28th October 1858.

2406. ABEL HEYWOOD, of the City of Manchester, Paper Maker and Stainer, for an invention for—"Improvements in machinery or apparatus for suspending paper and woven fabrics to be dried."—*A communication.* *Letters Patent sealed.*

EVANS. 28th October 1858.

2407. JOHN EVANS, of Brewers' House, Nine Elms, Battersea, in the County of Surrey, Engineer, for an invention for—"Improvements in lubricating the slide valves and pistons of steam-engines, and in apparatus for this purpose." *Provisional protection only.*

FOSTER. SMITH. 28th October 1858.

2408. BENJAMIN FOSTER, of Denholme, near Bradford, in the County of York, Spinner, and PRINCE SMITH, of Keighley, in the County of York, Machinist, for an invention for—"Improvements in machinery or apparatus for spinning and doubling wool, alpaca, mohair, cotton, silk, flax, and other fibrous substances." *Letters Patent sealed.*

MUNRO. 28th October 1858.

2409. WILLIAM MUNRO, of 32, Bartholomew Close, in the City of London, Manufacturing Chemist, for an invention for—"A new manufacture of capsules and other metallic articles." *Letters Patent sealed.*

SMITH. 28th October 1858.

2410. JAMES SMITH, of the City of Bristol, Horse-hair Seating and Curled-hair Manufacturer, for an invention for—"Improved hats and coverings for the head." *Letters Patent sealed.*

HALL. WELLS. 28th October 1858.

2411. WALTER HALL, and ARTHUR WELLS, both of Erith, in the County of Kent, India-rubber Web Manufacturers, for an invention for—"Improvements in electric telegraph cables, and in machinery employed for the manufacture thereof." *Letters Patent sealed.*

BRUNON. 29th October 1858.

2412. PIERRE BRUNON, of Paris, France, Manufacture, for an invention for—"An improved mode of manufacturing cocks." *Letters Patent sealed.*

KIRRAGE. 29th October 1858.

2413. WILLIAM KIRRAGE, of No. 10, Goulston's Buildings, Bermondsey New Road, in the County of Surrey, Surveyor, for an invention for—"An improved elastic combination of materials impervious to atmospheric influences, as a substitute for hard woods, metal, leather, or felting, and for other purposes." *Letters Patent sealed.*

DRANSFIELD. 29th October 1858.

2414. JOHN DRANSFIELD, of Waterhead Mill, Oldham, in the County of Lancaster, Hat Manufacturer, for an invention for—"Certain improvements in cocks, taps, or valves." *Provisional protection only.*

WRIGHT. 29th October 1858.

2415. PETER WRIGHT, of Dudley, in the County of Worcester, Manufacturer, for an invention for—"Improvements in the manufacture of anvils." *Letters Patent sealed.*

NEWTON. 29th October 1858.

2416. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved method of attaching wheels to the axles of railway carriages."—*A communication.* *Letters Patent sealed.*

DIXON. 29th October 1858.

2417. JOSEPH DIXON, of Jersey City, in the State of New Jersey, United States of America, for an invention for—"A method of manufacturing steel." *Provisional protection only.*

WRIGHT. 29th October 1858.

2418. JAMES WRIGHT, of 21, Bridge Street, Blackfriars, London, County of Middlesex, Civil Engineer, for an invention for—"An improved application of machinery to be used as a new motive propelling power."—*A communication.* *Letters Patent sealed.*

ZANNI. 29th October 1858.

2419. GEMINIANO ZANNI, of Union Street, Barnet, in the County of Middlesex, for an invention for—"Improvements in arranging magneto-electric machines for medical and other purposes." *Letters Patent sealed.*

CHANDLER. OLIVER. 29th October 1858.

2420. ROBERT WILSON CHANDLER, of Bow, in the County of Middlesex, Engineer, and THOMAS OLIVER, of Hatfield, in the County of Hertford, Farmer, for an invention for—"Improvements in agricultural apparatuses for ploughing and otherwise operating upon land." *Letters Patent sealed.*

BROOMAN. 29th October 1858.

2421. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in obtaining motive-power."—*A communication from Joseph Vanossi.* *Provisional protection only.*

LEWIS. 29th October 1858.

2422. LESTER JOHN LEWIS, Jeweller, of New Bridge Street, Birmingham, in the County of Warwick, for an invention for—"Certain improvements in fastenings for ladies' dresses and other such like purposes, as also in the machinery for manufacturing the same." *Letters Patent sealed.*

MORRIS. 29th October 1858.

2423. JOHN MORRIS, of Broughton, Salford, in the County of Lancaster, for an invention for—"Improvements in the manufacture of rollers or cylinders for printing fabrics." *Letters Patent sealed.*

DRUMMOND. 29th October 1858.

2424. JAMES DRUMMOND, of Cameron Bank, in the County of Midlothian, North Britain, Farmer, for an invention for—"Improvements in reaping and mowing machines." *Letters Patent sealed.*

JOHNSON. 29th October 1858.

2425. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in photography and in the apparatus connected therewith."—*A communication from Gaspard Felix Fourmachon, called Nadar, of Paris, in the Empire of France, Photographist.* *Provisional protection only.*

CONINGSBY. 30th October 1858.

2426. ROBERT JAMES CONINGSBY, of London, in the County of Middlesex, Engineer, for an invention for—"Improved apparatus for turning over the leaves of music or of books." *Provisional protection only.*

HUGHES. 30th October 1858.

2427. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in machinery or apparatus to prevent railway accidents."—*A communication from Jean Amable Delormas, jeune, and Amable Gaspard Terrel, both residing at Lyons, in the Empire of France.* *Letters Patent sealed.*

WRIGLEY. 1st November 1858.

2428. FRANCIS WRIGLEY, of Manchester, in the County of Lancaster, Consulting Engineer, for an invention for—"An improved self-acting safety coupling for railway and other purposes." *Letters Patent sealed.*

DAVIES. 1st November 1858.

2429. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in machinery for weaving velvets and other piled fabrics."—*A communication.* *Letters Patent sealed.*

VERO. EVERITT. 1st November 1858.

2430. CHARLES VERO, of Atherstone, in the County of Warwick, Hat Manufacturer, and JAMES EVERITT, of Atherstone aforesaid, Hat Manufacturer, for an invention for—"Improvements in the manufacture of hats and other coverings for the head, a part of which improvements is also applicable to the manufacture of felt." *Letters Patent sealed.*

HENSON.
HENSON.
1st November 1858.

2431. HENRY HENSON HENSON, and WILLIAM FREDERICK HENSON, of No. 38, Parliament Street, in the City of Westminster, for an invention for—"Improvements in the manufacture and treatment of starch for domestic purposes."
Letters Patent sealed.

DOBSON.
PEARCE.
1st November 1858.

2432. JOHN DOBSON, and DANIEL PEARCE, of Saint James' Street, in the County of Middlesex, Glass Manufacturer, for an invention for—"Improvements in the manufacture of bird cages." *Letters Patent sealed.*

CARISS.
1st November 1858.

2433. JOHN CARISS, of York, Yorkshire, for an invention for—"An improved safety switch box and gear." *Letters Patent sealed.*

MAYNARD.
1st November 1858.

2434. EDWARD MAYNARD, of Brooklyn, in the County of Kings, and State of New York, United States of America, for an invention for—"Improvements in submarine telegraph cables." *Letters Patent sealed.*

PERLEY.
1st November 1858.

2435. CHARLES PERLEY, of the City and State of New York, United States of America, for an invention for—"Certain improved means for disconnecting boats from the davit blocks, and effecting other like objects." *Letters Patent sealed.*

PALMER.
1st November 1858.

2436. WILLIAM PALMER, of the City and State of New York, United States of America, for an invention for—"Improvements in fire-arms."
Letters Patent sealed.

BEAVER.
2nd November 1858.

2437. LOUIS BEAVER, of Manchester, in the County of Lancaster, Jeweller, for an invention for—"An improvement in sleeve links." *Provisional protection only.*

MENNONS.
2nd November 1858.

2438. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved system of railway brakes."—*A communication from Claude Arnoux, residing at Paris.* *Letters Patent sealed.*

MENNONS.
2nd November 1858.

2439. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved combination for the production of voltaic electricity, and its application as a curative agent to certain parts of the human body."—*A communication.*
Letters Patent sealed.

TOMASINI.
2nd November 1858.

2440. DOMENICO TOMASINI, of Store Street, Bedford Square, in the County of Middlesex, Upholsterer, for an invention for—"Improvements in respirators."
Provisional protection only.

BROUGH.
2nd November 1858.

2441. NEHEMIAH BROUGH, Machinist, of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in buttons and in the means of attaching them to garments, which said means is also applicable for other purposes." *Letters Patent sealed.*

SMITH.
2nd November 1858.

2442. ROBERT CREED SMITH, of Birmingham, in the County of Warwick, Glass Mould Maker, for an invention for—"A new or improved buoy or wreck intelligencer." *Letters Patent sealed.*

LANCASTER.
2nd November 1858.

2443. JOHN LANCASTER, of Belfast, in the County of Antrim, Ireland, for an invention for—"A new or improved method of driving and curbing horses."
Provisional protection only.

LAVATER.
2nd November 1858.

2444. MANUEL LEOPOLD JONAS LAVATER, of the Strand, in the County of Middlesex, India-rubber Manufacturer, for an invention for—"Improvements in cartridges for military and other purposes." *Provisional protection only.*

BARCLAY.
2nd November 1858.

2445. ANDREW BARCLAY, residing in Kilmarnock, in the County of Ayr, North Britain, Engineer, for an invention for—"Certain improvements in electric and magnetic or electro-magnetic telegraphs applicable to submarine and land communication." *Provisional protection only.*

KYLE.
2nd November 1858.

2446. DAVID DUNNE KYLE, of Albany Street, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in boots and shoes."
Provisional protection only.

SAMPSON.
MACHON.
BARTHOLOMEW.
2nd November 1858.

2447. JAMES SAMPSON, JOHN MACHON, and JAMES BARTHOLOMEW, all of Sheffield, for an invention for—"Improvements in railway carriage breaks."
Provisional protection only.

McDOUGALL.
2nd November 1858.

2448. ALEXANDER McDOUGALL, of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the construction of reservoirs, tanks, culverts, sea-walls, and other erections required to exclude water or damp." *Provisional protection only.*

DODGE.
2nd November 1858.

2449. NATHANIEL SHATTSWELL DODGE, of 44, St. Paul's Church Yard, in the City of London, Merchant and Manufacturer, for an invention for—"Improvements in treating waste vulcanized India-rubber."—*A communication.* *Letters Patent sealed.*

BOTTOMLEY.
3rd November 1858.

2450. SMITH BOTTOMLEY, of Bradford, in the County of York, Warehouseman to Messrs. Churton, Bankart, and Hirst, of Bradford, in the said County, Stuff Merchants, for an invention for—"Improvements in the manufacture of moreens and other fabrics of a similar character." *Letters Patent sealed.*

GLASSFORD.
3rd November 1858.

2451. CHARLES FINLAY OLIPHANT GLASSFORD, of Greenwich, in the County of Kent, Chemist, for an invention for—"Improvements in the manufacture of manure from the excreta of towns." *Provisional protection only.*

TERTIAN-MORET.
3rd November 1858.

2452. HYACINTHE TERTIAN-MORET, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"The application of a mineral named Deterso as a disinfecting, preserving, absorbing, and curative powder." *Letters Patent sealed; no specification filed.*

BLUMBERG.
3rd November 1858.

2453. VICTOR BLUMBERG, of Bloomfield Lodge, Notting Hill, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of slate billiard tables, which improvements are also applicable for other useful purposes." *Letters Patent sealed.*

TALL.
3rd November 1858.

2454. JOSEPH TALL, of Collingwood Street, Blackfriars' Road, County of Surrey, Engineer, for an invention for—"Improvements in brushes or brooms for sweeping floors, carpets, and other similar articles." *Provisional protection only.*

FRYER.
WATT.
HOLMES.
3rd November 1858.

2455. DANIEL FRYER, THOMAS LEACH CROSS WATT, and WILLIAM HOLMES, all of No. 48 Paternoster Row, in the City of London, for an invention for—"Improvements in tanning hides and skins." *Letters Patent sealed.*

MAWDSLEY.
3rd November 1858.

2456. PETER ALFRED MAWDSLEY, of Seacombe, in the County of Chester, Smalt Manufacturer, for an invention for—"Improved machinery or apparatus for drying yarns after being sized or stiffened, and the use or application of a certain substance or substances in the sizing, stiffening, or otherwise preparing yarns and woven fabrics or either of them." *Letters Patent sealed.*

MAWDSLEY.
3rd November 1858.

2457. PETER ALFRED MAWDSLEY, of Seacombe, in the County of Chester, Smalt Manufacturer, for an invention for—"The use or application of a certain substance or substances in the manufacture, stiffening, or sizing of paper." *Letters Patent sealed.*

FOWLER.
BURTON.
GREIG.
3rd November 1858.

2458. JOHN FOWLER, Junior, ROBERT BURTON, and DAVID GREIG, all of Cornhill, in the City of London, for an invention for—"Improvements in applying motive-power to actuate ploughs and other agricultural implements." *Letters Patent sealed.*

BUSSE.
3rd November 1858.

2459. FREDERICK BERNHARD BUSSE, of Carlton Terrace, Sydenham Park, in the County of Kent, Gentleman, for an invention for—"Improvements in breech-loading fire-arms."—*A communication from Mr. Theodor Knauth, of Leipsic.* *Provisional protection only.*

FIELDING.
4th November 1858.

2460. ENOCH FIELDING, of Todmorden, in the County of Lancaster, Factory Operative, for an invention for—"An improved method of preserving the form of cops of yarn by the application of adhesive substances." *Letters Patent sealed.*

OXLEY.
4th November 1858.

2461. JOHN OXLEY, of Camden Town, for an invention for—"Improvements in carriages and wheel vehicles." *Letters Patent sealed.*

VASSEROT.
4th November 1858.

2462. CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"Improved driving machinery applicable for thrashing grain, and other agricultural purposes."—*A communication from Auguste Bauquin, residing at Nantes, Loire Inférieure, in the Empire of France.* *Provisional protection only.*

EVELYN.
4th November 1858.

2463. GEORGE PALMER EVELYN, of Eccleston Terrace, in the County of Middlesex, Esquire, for an invention for—"The improvement of the form of the stocks of rifles, carbines, and other fire-arms." *Letters Patent sealed.*

NAPIER.
4th November 1858.

2464. JAMES ROBERT NAPIER, of Glasgow, in the County of Lanark, North Britain, Civil Engineer, for an invention for—"Improvements in obtaining motive-power by means of heat." *Provisional protection only.*

MATHER.
4th November 1858.

2465. COLIN MATHER, of Salford, in the County of Lancaster, Machinist, for an invention for—"Improvements in drying yarns while in the hank." *Letters Patent sealed; no specification filed.*

MABLEY.
4th November 1858.

2466. WILLIAM TUDOR MABLEY, of Manchester, in the County of Lancaster, Mechanical Engineer, for an invention for—"Improvements in printing and dyeing woven fabrics."—*A communication.* *Provisional protection only.*

BROOMAN.
4th November 1858.

2467. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in treating air and gases, and the employment of the same for obtaining motive-power."—*A communication.* *Letters Patent sealed.*

BAGGS.
4th November 1858.

2468. ISHAM BAGGS, of Kennington, in the County of Surrey, Electrical Engineer, for an invention for—"Improvements in telegraphing by electricity." *Provisional protection only.*

FRIEDMANN.
4th November 1858.

2469. ADOLF FRIEDMANN, of Frankfort-on-the-Maine, Manufacturer of Jewellery, for an invention for—"An improvement in bracelets, necklets, and rings." *Provisional protection only.*

TOOTH.
5th November 1858.

2470. WILLIAM HENRY TOOTH, of Lampeter Street, Islington, County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture and construction of fire or furnace bars." *Provisional protection only.*

TILL.
5th November 1858.

2471. THOMAS TILL, of Hooper Street, in the Borough of Birmingham, in the County of Warwick, Mechanic, for an invention for—"Improvements in machinery for making nails and for other analogous purposes where metal is compressed by dies or stamps." *Letters Patent sealed.*

SMITH.
5th November 1858.

2472. THOMAS BRIGGS SMITH, of Marietta, in the State of Ohio, and United States of America, for an invention for—"Preparing wood so as to be used as a substitute for curled hair, in the manufacture of mattresses, and in the other purposes to which curled hair and its substitutes are applied." *Letters Patent sealed.*

TJÄDER.
5th November 1858.

2473. CARL JACOB TJÄDER, of Stockholm, in the Kingdom of Sweden, Gentleman, for an invention for—"Improvements in gun carriages and in apparatus for lessening recoil." *Provisional protection only.*

ROWLAND.
DEWHURST.
5th November 1858.

2474. ELLIS ROWLAND, of Manchester, in the County of Lancaster, Engineer, and JOHN DEWHURST, of the same place, Engineer, for an invention for—"Certain improvements in steam-engines and in the valves connected therewith, which said improvements in valves are also applicable to safety valves." *Provisional protection only.*

M'CLURE.
5th November 1858.

2475. DAVID M'CLURE, of Heaton Norris, in the County of Lancaster, Cotton Manufacturer, for an invention for—"An improvement in the machinery used for the drying of yarn, thread, cloth, or other wet fabrics." *Provisional protection only.*

MILLS.
5th November 1858.

2476. CHARLES MILLS, of 8, High Street, Camden Town, in the County of Middlesex, for an invention for—"Improvements in the action of pianofortes." *Provisional protection only.*

SCHWARTZKORF.
PHILIPPSON.
5th November 1858.

2477. LOUIS SCHWARTZKORF, and FERDINAND CARL PHILIPPSON, both of Berlin, for an invention for—"Improvements in machinery for boring holes in rocks and minerals, for blasting and other similar purposes." *Letters Patent sealed.*

DAVEY.
5th November 1858.

2478. SIMON DAVEY, Merchant, residing at Rouen, France, for an invention for—"Improvements in blasting powder." *Letters Patent sealed.*

PINHEY.
WOOD.
5th November 1858.

2479. ROBERT EARDLEY PINHEY, of Woolstan, in the County of Hampshire, and JOHN WOOD, of 58, High Street, Southampton, in the Town and County of Southampton, Hampshire, for an invention for—"Improvements in apparatus for ascertaining the variation of ships' compasses for local errors."—*Letters Patent sealed.*

DE SAXE.
6th November 1858.

2480. JOHN DE SAXE, of No. 38, City Road, in the County of Middlesex, Tobacconist, for an invention for—"An improved folding joint for the handles of parasols."—*A communication from Mr. Charles De Saxe, of the City of New York, in the United States of North America, Umbrella and Parasol Manufacturer.*
Provisional protection NOT *granted.*

PENRICE.
6th November 1858.

2481. HERBERT NEWTON PENRICE, of Witton House, near Norwich, for an invention for—"Improvements in machinery for tunnelling and driving galleries through rock and other strata." *Letters Patent sealed.*

FRYER.
6th November 1858.

2482. ALFRED FRYER, of Manchester, in the County of Lancaster, Sugar Refiner, for an invention for—"An improved method of supplying the tenders of locomotive engines, and of supplying boilers with water." *Letters Patent sealed.*

JONAS.
JONES.
6th November 1858.

2483. BENJAMIN WOOLF JONAS, and REUBEN JONES, both of Southwark, in the County of Surrey, for an invention for—"An improved ships' block."
Provisional protection only.

GREEN.
6th November 1858.

2484. WILLIAM GREEN, of 21, King William Street, Strand, in the County of Middlesex, Gentleman, for an invention for—"An improved harness trace coupling."—*A communication.* *Provisional protection only.*

CLIFF.
6th November 1858.

2485. JOHN CLIFF, of the Imperial Potteries, Lambeth, in the County of Surrey, for an invention for—"Improvements in the construction of kilns for burning stoneware, red-clay ware, porcelain, and all other kinds of earthenware."
Letters Patent sealed.

WEBSTER.
HORSFALL.
6th November 1858.

2486. BARON DICKINSON WEBSTER, of Penns, in the County of Warwick, and JAMES HORSFALL, of Birmingham, in the County of Warwick, Manufacturers and Copartners, for an invention for—"An improvement in the manufacture of steel wire." *Letters Patent sealed.*

ZIERVOGEL.
6th November 1858.

2487. WILHELM ZIERVOGEL, of Hettstädt, near Eisleben, in the Kingdom of Prussia, for an invention for—"Improvements in apparatus for distilling products from bituminous coal, schist, peat, and other like substances."—*Letters Patent sealed.*

MATLEY.
MILLER.
HALL.
6th November 1858.

2488. MATTHEW MATLEY, Engineer, HENRY MILLER, Mechanic, and THOMAS HALL, Engineer, all of Ashton-under-Lyne, in the County of Lancaster, for an invention for—"Improvements in the construction and arrangement of steam-boilers and furnaces, for the purposes of consuming smoke, economizing fuel, and heating the feed water, and also improvements in certain valves connected with steam-boilers."
Provisional protection only.

JACKSON.
FISHER.
HARNEY.
6th November 1858.

2489. JAMES JACKSON, AARON FISHER, and JOHN JONES HARNEY, of Sheffield, in the County of York, Crinoline Manufacturers, for an invention for—"Improvements in the manufacture of strips or bands of steel, and in the machinery or apparatus to be employed therein." *Letters Patent sealed.*

PLATT.
6th November 1858.

2490. JOHN PLATT, of Oldham, in the County of Lancaster, Mechanical Engineer, for an invention for—"Improvements in machinery or apparatus for preparing, spinning, and doubling cotton and other fibrous materials." *Letters Patent sealed.*

RICHMOND.
QUICK.
FRASER.
8th November 1858.

2491. JOHN RICHMOND, Engineer and Machinist, of 21, Carlisle Terrace, Fairfield Road, Bow, in the County of Middlesex, JOSEPH QUICK, Junior, and ALEXANDER FRASER, Civil Engineers, both of Sumner Street, Southwark, in the County of Surrey, for an invention for—"Construction of a meter for measuring water, spirits, or any other fluids." *Letters Patent sealed.*

OSBORNE.
8th November 1858.

2492. MARK OSBORNE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved method of ornamenting fenders, stove grates, tables, chairs, and couches, made of cast iron."
Provisional protection only.

ALCAN.
8th November 1858.

2493. EMILE ALCAN, of 4, Coleman Street Buildings, in the City of London, Merchant, for an invention for—"An improved method of treating or preparing materials to be manufactured into paper, applicable to lie-washings in general."—*A communication.* *Letters Patent sealed.*

DENDY.
8th November 1858.

2494. ARTHUR HYDE DENDY, of 27, Fortess Terrace, Kentish Town, in the County of Middlesex, Esquire, Master of Arts, for an invention for—"Improvements in the construction of breakwaters or wave screens, applicable also in constructing bridges, roadways, piers, jetties, landing-stages, and other structures."
Letters Patent sealed.

WARDILL.
8th November 1858.

2495. JONATHAN WARDILL, of Commercial Road East, in the County of Middlesex, Engineer, for an invention for—"Improvements in purchases for the raising and lowering of weights by means of chains, especially applicable to ships' capstans and windlasses." *Letters Patent sealed.*

MAC SWENEY.
8th November 1858.

2496. THOMAS MAC SWENEY, of 25, Rood Lane, in the City of London, for an invention for—"Improvements in steering-apparatus." *Letters Patent sealed.*

HALE.
8th November 1858.

2497. WILLIAM HALE, of 6, John Street, Adelphi, in the County of Middlesex, for an invention for—"Improvements in rockets." *Letters Patent sealed.*

SMITH.
8th November 1858.

2498. WILLIAM SMITH, of Little Woolstone, in the County of Buckingham, for an invention for—"Improvements in apparatus for supporting the hauling ropes when hauling ploughs and other agricultural implements by steam-power."
Letters Patent sealed.

MARSHALL.
8th November 1858.

2499. THOMAS BEAUMONT MARSHALL, of the firm of Trimbey & Co., of Queen Street, Cheapside, in the City of London, Musical Instrument Manufacturers, for an invention for—"Improvements in drums." *Provisional protection only*

CAMBRIDGE.
8th November 1858.

2500. WILLIAM COLBORNE CAMBRIDGE, of Bristol, Agricultural Implement Maker, for an invention for—"An improved manufacture of tubular iron applicable to the construction of whippletrees and to other uses." *Provisional protection only.*

AMBLET.
POLART.
8th November 1858.

2501. JOSEPH FRANÇOIS AMBLET, and AUGUSTE POLART, both of Amiens, in the Empire of France, Manufacturers, for an invention for—"Improvements in the manufacture of elastic fabrics." *Provisional protection only.*

ALLEN.
9th November 1858.

2502. EDWARD ELLIS ALLEN, of Brompton Row, in the County of Middlesex, Engineer, for an invention for—"Improved machinery or apparatuses for working the propellers of vessels." *Letters Patent sealed.*

DAWES.
9th November 1858.

2503. JOHN SAMUEL DAWES, of Smethwick House, near Birmingham, Gentleman, for an invention for—"A new or improved machine to be used for cultivating land and which may be made applicable as a hoe, a skim, a turf or peat cutter, and a new or improved method of actuating the said machine and other machines used for like operations." *Letters Patent sealed.*

DICKSON.
9th November 1858.

2504. JOHN FARMERLEY DICKSON, of No. 6, Russel Street, Litchurch, near Derby, in the County of Derby, Engineer, for an invention for—"Improvements in the construction of railway chairs and other details connected with the permanent way of railways." *Letters Patent sealed.*

JULLION.
9th November 1858.

2505. JOHN LOUIS JULLION, Paper Maker, of Stoneywood Works, Aberdeen, N.B., for an invention for—"Improvements in the manufacture of paper."
Letters Patent sealed.

HENRY.
9th November 1858.

2506. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in and in the manufacture of locks and fastenings, and keys for the same."—*A communication from Mr. Rebour.*
Provisional protection only.

HENDERSON.
9th November 1858.

2507. ANDREW HENDERSON, of Gloucester Place, Portman Square, in the County of Middlesex, Master Mariner, for an invention for—"Improvements in vessels and in applying rudders thereto." *Letters Patent sealed.*

FELIX.
9th November 1858.

2508. JOSEPH FELIX, of No. 54, Rue Croix Nivert, at Grenelle, near Paris, Mechanician, for an invention for—"Improvements in castors for furniture and other similar purposes." *Letters Patent sealed.*

BULKLEY.
9th November 1858.

2509. CHARLES ADDISON BULKLEY, of the City, County, and State of New York, in the United States of America, for an invention for—"Improvements in the apparatus for ginning and cleaning cotton."—*A communication from Stephen Rollins Parkhurst, of said New York City, now residing in said United States.*
Provisional protection only.

CLARK.
9th November 1858.

2510. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Patent Agent and Engineer, for an invention for—"Improvements in signals for railways, and in apparatus for actuating the same."—*A communication from Auguste Lucien Verité, and Julion Stephane Bazin.* *Letters Patent sealed.*

MARLING.
APPERLY.
9th November 1858.

2511. SAMUEL STEPHENS MARLING, of Stanley Park, in the County of Gloucester, Esquire, and JAMES APPERLY, of Dudbridge, near Stroud, in the same County, Woollen Cloth Manufacturer, for an invention for—"Improvements in the construction of fulling-machines." *Provisional protection only.*

NEWTON.
9th November 1858.

2512. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the construction of stairs."—*A communication.* *Provisional protection only.*

NEWTON.
9th November 1858.

2513. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for obtaining extracts or decoctions."—*A communication.* *Letters Patent sealed.*

NEWTON.
9th November 1858.

2514. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improvements in electric telegraphs."—*A communication.* *Provisional protection only.*

BROOMAN.
9th November 1858.

2515. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in electric telegraphing."—*A communication.* *Letters Patent sealed.*

ORDISH.
9th November 1858.

2516. ROWLAND MASON ORDISH, of Great George Street, Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in constructing the permanent ways of railways." *Letters Patent sealed.*

NORMAN.
HANNAH.
10th November 1858.

2517. JOHN NORMAN, Engineer, and ROBERT HANNAH, Potter, both of Glasgow, in the County of Lanark, North Britain, for an invention for—"Improvements in furnaces." *Provisional protection only.*

CORNER.
10th November 1858.

2518. JOHN CORNER, of 15, Artillery Place, and 16, City Road, Finsbury Square, London, Boot and Shoe Manufacturer, for an invention for—"Improvements in machinery for making metallic screw rivets, and for uniting with them parts of boots and shoes, portmanteaus, leather hose, buckets, harness, and other similar leathern articles." *Letters Patent sealed.*

BUCHANAN.
10th November 1858.

2519. JOHN BUCHANAN, of Greenock, in the County of Renfrew, North Britain, Gentleman, for an invention for—"Improvements in propelling vessels, ships, and boats." *Letters Patent sealed; no specification filed.*

TAYLOR.
10th November 1858.

2520. WILLIAM GARNETT TAYLOR, of Ashby-de-la-Zouch, in the County of Leicester, for an invention for—"Improvements in removing the fur from skins and preparing said skins for tanning." *Letters Patent sealed.*

SCHMIDT.
10th November 1858.

2521. GUSTAVE SCHMIDT, of No. 2, Caroline Street, Bedford Square, in the County of Middlesex, for an invention for—"Improvements in the construction of core bars." *Provisional protection only.*

HUMPHRYS.
10th November 1858.

2522. EDWARD HUMPHRYS, of Deptford, Engineer, for an invention for—"Improvements in steam-engines and boilers." *Letters Patent sealed.*

SCHMIDT.
10th November 1858.

2523. GUSTAVE SCHMIDT, of No. 2, Caroline Street, Bedford Square, in the County of Middlesex, for an invention for—"Improvements in the manufacture of cast-iron pipes." *Provisional protection only.*

BROOKS.
10th November 1858.

2524. ABRAHAM JAMES BROOKS, of Southsea, in the County of Hants, Solicitor, for an invention for—"An improvement in screw propellers." *Letters Patent sealed.*

SCHMIDT.
10th November 1858.

2525. GUSTAVE SCHMIDT, of No. 2, Caroline Street, Bedford Square, in the County of Middlesex, for an invention for—"Improvements in ladles employed when casting metals." *Provisional protection only.*

LOCKE.
10th November 1858.

2526. EDWARD LOCKE, of Newport, in the County of Monmouth, Engineer, for an invention for—"Improvements in the construction of gas meters." *Provisional protection only.*

JUDKINS.
10th November 1858.

2527. CHARLES TIOT JUDKINS, of No. 32, York Road, Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in gas regulators."
Letters Patent sealed.

BLETHYN.
11th November 1858.

2528. JOHN BLETHYN, of Swansea, in the County of Glamorgan, Engineer, for an invention for—"Improvements in the manufacture of fuel."
Letters Patent sealed.

LEES.
LEES.
11th November 1858.

2529. JAMES LEES, of Oldham, in the County of Lancaster, Tin Plate Worker, and WILLIAM LEES, of the same place, Engineer, for an invention for—"An improvement in the construction of oil cans." *Letters Patent sealed.*

WRIGHT.
MERCER.
11th November 1858.

2530. ROBERT WRIGHT, of Openshaw, near Manchester, in the County of Lancaster, Jeweller, and THOMAS JAMES MERCER, the younger, of Coventry, in the County of Warwick, Watch Manufacturer, for an invention for—"A new or improved motive-power engine." *Provisional protection only.*

MABERLY.
11th November 1858.

2531. FREDERICK HERBERT MABERLY, of Stowmarket, in the County of Suffolk, Master of Arts, for an invention for—"Improvements in the construction of ships of war and other vessels, their machinery, and appurtenances."
Letters Patent sealed.

BENSON.
11th November 1858.

2532. MARTIN BENSON, late of Cincinnati, in the United States of America, but now residing at Newcastle, Mechanical Engineer, for an invention for—"An improved manufacture of rails for railways."—*A communication.* *Letters Patent sealed.*

NEWTON.
11th November 1858.

2533. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for securing doors of safes, closets, and apartments."—*A communication.* *Letters Patent sealed.*

GRAY.
11th November 1858.

2534. THOMAS GRAY, of Bride Lane, in the City of London, for an invention for—"An improvement in separating wool and animal fibres from vegetable fibres contained in mixed fabrics." *Letters Patent sealed; no specification filed.*

RAE.
11th November 1858.

2535. JAMES RAE, of Alpha Road, New Cross, in the County of Kent, for an invention for—"Improvements in cisterns suitable for containing water for household uses." *Letters Patent sealed.*

MICKELTHWATE.
11th November 1858.

2536. ARTHUR MICKELTHWATE, of Sheffield, in the County of York, for an invention for—"Improvements in treating and manufacturing buffalo and other horn so as to be used as a substitute for whalebone, and for other useful purposes."
Provisional protection only.

BUCHANAN.
11th November 1858.

2537. JOHN BUCHANAN, of Greenock, in the County of Renfrew, North Britain, Gentleman, for an invention for—"Improvements in propelling vessels, ships, and boats." *Letters Patent sealed; no specification filed.*

COCKER.
12th November 1858.

2538. THOMAS FILDES COCKER, of Sheffield, in the County of York, Steel File and Wire Manufacturer, for an invention for—"Improvements in the manufacture of steel and iron wire, also of sheets and strips of steel."
Letters Patent sealed.

OGDEN.
12th November 1858.

2539. JAMES OGDEN, of Liverpool, in the County of Lancaster, Commission Agent, for an invention for—"Improvements in shuttles for looms."
Provisional protection only.

MARTIEN.
12th November 1858.

2540. JOSEPH GILBERT MARTIEN, of Ampthill Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of iron, and in the apparatus employed in such manufacture."
Letters Patent sealed.

TURNER.
12th November 1858.

2541. DAN TURNER, of 90, High Street, Whitechapel, in the County of Middlesex, for an invention for—"Improvements in the manufacture of wood soles for clogs, boots and shoes." *Provisional protection only.*

BOUSFIELD.
12th November 1858.

2542. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"An improved apparatus for illustrating conic sections and the lines of the globe."—*A communication.*
Letters Patent sealed.

MILLS.
SIDEBOTHAM.
13th November 1858.

2543. MARK NIELD MILLS, and NATHAN SIDEBOTHAM, both of Ashton-under-Lyne, in the County of Lancaster, Machinists, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

BENYON.
BOWDEN.
13th November 1858.

2544. JOHN BENYON, of Swinton, near the City of Manchester, Manager, and JOHN WARBURTON BRIDGE BOWDEN, of the same place, Manufacturer, for an invention for—"Certain improvements in looms for weaving."—*Letters Patent sealed.*

WADSWORTH.
13th November 1858.

2545. JAMES WADSWORTH, of Salford, in the Parish of Manchester, and County of Lancaster, Machinist, for an invention for—"Improvements in the construction of moveable or adjustable heels for boots and shoes, and of spurs adapted thereto and to be used therewith." *Letters Patent sealed.*

ASHTON.
CARTMELL.
13th November 1858.

2546. WILLIAM ASHTON, of Preston, in the County of Lancaster, and THOMAS CARTMELL, of the same place, Engineers, for an invention for—"Improvements in air pumps, part of which improvements is also applicable to the pistons of other pumps and of steam-engines." *Letters Patent sealed.*

COURAGE.
BENNETT.
13th November 1858.

4547. JOHN COURAGE, of Horsleydown, in the County of Surrey, Brewer, and FREDERICK BENNETT, of Holywell, in the County of Flintshire, Smelter, for an invention for—"Improvements in furnaces for reducing and smelting ores, scoria, slag, and waste." *Letters Patent sealed.*

TAYLOR.
13th November 1858.

2548. JAMES TAYLOR, of Birkenhead, Engineer, for an invention for—"Improvements in portable steam-engines." *Letters Patent sealed.*

AULD.
13th November 1858.

2549. DAVID AULD, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in furnaces and boilers, and in the generation and treatment of steam." *Letters Patent sealed.*

SWAN.
13th November 1858.

2550. MICHAEL SWAN, of Henstridge Villas, St. John's Wood, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of floating docks and other floating structures." *Provisional protection only.*

PETRE.
13th November 1858.

2551. LOUIS PETRE, of Hatton Garden, in the County of Middlesex, Glass Silverer, for an invention for—"Improvements in the application of glass to ornamental and useful purposes." *Letters Patent sealed.*

LIVERMORE.
13th November 1858.

2552. ISAAC LIVERMORE, of 5, Shrubland Grove East, Queen's Road, Dalston, in the County of Middlesex, for an invention for—"An improvement in the manufacture of shuttle-cocks." *Letters Patent sealed.*

LAVATER.
13th November 1858.

2553. MANUEL LEOPOLD JONAS LAVATER, of the Strand, in the County of Middlesex, India-rubber Manufacturer, for an invention for—"Improvements in the manufacture of mats, coverings for floors and other surfaces, and other cellular articles when India-rubber compounds are used." *Letters Patent sealed.*

THOMAS.
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THOMAS.
13th November 1858.

2554. CHRISTOPHER JAMES THOMAS, THOMAS THOMAS, HERBERT THOMAS, and CHARLES THOMAS, all of the City of Bristol, Soap Manufacturers and Copartners, for an invention for—"An improvement in the manufacture of caustic alkaline lees." *Letters Patent sealed.*

WOODCOCK.
DUNLOP.
13th November 1858.

2555. ALONZO BUONAPARTE WOODCOCK, and JOHN MACMILLAN DUNLOP, both of Manchester, for an invention for—"Improvements in covering rollers, shafts, and tubes of any figure or material, with elastic shells or covers of vulcanized India-rubber or other elastic substance, and in turning or grinding the surfaces of such elastic covers or shells." *Letters Patent sealed.*

FRODSHAM.
13th November 1858.

2556. DANIEL FRODSHAM, of Rose Cottage, Gurney Road, Stratford, in the County of Essex, for an invention for—"Improvements in apparatus used in combination with fire-boxes of tubular steam-boilers in order to supply air and steam thereto." *Letters Patent sealed and specification filed, by order.*

PULLAN.
13th November 1858.

2557. MATTHEW PULLAN, of Horsforth, near Leeds, in the County of York, Bleacher, for an invention for—"Improvements in machinery for drying yarns and other materials." *Letters Patent sealed.*

HOPKINSON.
13th November 1858.

2558. JOHN ADDY HOPKINSON, of Huddersfield, in the County of York, Engineer, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

MASSIA.
15th November 1858.

2559. SELIM S^{T} CLAIR MASSIA, of No. 1 B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new economical guard for candles and wax lights." *Provisional protection only.*

BUTCHER.
STEVENS.
JOHNSON.
JARVIS.
15th November 1858.

2560. THOMAS ROBERT BUTCHER, FREDERICK STEVENS, WILLIAM THOMAS JOHNSON, and THEOPHILUS JARVIS, of Frome, in the County of Somerset, Pianoforte Action Manufacturers, for an invention for—"Improvements in the hammer rails of pianofortes." *Complete specification; Letters Patent sealed.*

DICK.
15th November 1858.

2561. ALLAN DICK, of Holywell, in the County of Flint, Metallurgist, for an invention for—"A new or improved manufacture of a yellow pigment." *Letters Patent sealed.*

DAVIES.
15th November 1858.

2562. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in the process of finishing piled fabrics, and in apparatus employed in such process."—*A communication.* *Letters Patent sealed.*

PREDAVALLE.
15th November 1858.

2563. BARTOLOMMEO PREDAVALLE, of Hart Street, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in producing or obtaining motive-power." *Provisional protection only.*

ARMSTRONG.
15th November 1858.

2564. WILLIAM GEORGE ARMSTRONG, of the Borough and County of Newcastle-upon-Tyne, Civil Engineer, for an invention for—"Improvements in the manufacture of ordnance." *Letters Patent sealed.*

DESCHAMPS.
QUINCHE.
15th November 1858.

2565. MARIEL GRIPON DESCHAMPS, and ANTOINE JOSEPH QUINCHE, of 40, Rue Beaubourg, Paris, and of 53, Chancery Lane, in the County of Middlesex, Metallurgists and Jewellers, for an invention for—"A new compound metal which they term Lutetia Metal." *Provisional protection only.*

CLARK.
15th November 1858.

2566. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in colouring, preserving, and desiccating wood and marble, and in apparatus for the same."—*A communication from François Casult, residing at Marseille, in the Empire of France.* *Letters Patent sealed.*

CLARK.
15th November 1858.

2567. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"A new mode of advertizing."—*A communication from Messrs. Berson and Beaujanot* *Letters Patent sealed.*

BUNTING.
15th November 1858.

2568. JOHN GOLDING BUNTING, of the City of St. John, in the Province of New Brunswick, in British North America, but at present at the Office for Patents No. 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"A mechanical horse-tamer or brake." *Letters Patent sealed.*

BRENNAND.
16th November 1858.

2569. JOHN BRENNAND, of Manchester, in the County of Lancaster, Calico Printer, for an invention for—"Improvements in the method of effecting the locomotion of carriages, which improvements are also applicable to other similar purposes." *Letters Patent sealed.*

JOHNSON.
16th November 1858.

2570. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for kneading dough or working and mixing plastic materials."—*A communication from Monsieur Vallée.* *Letters Patent sealed.*

BOISNEAU.
16th November 1858.

2571. JOSEPH CONSTANT BOISNEAU, of Chatellerault, in the French Empire, Engineer, for an invention for—"An improved horse-mill or gear." *Letters Patent sealed.*

PARENT.
16th November 1858.

2572. ALFRED ISIDORE HONORÉ PARENT, of Paris, in the French Empire, Manufacturer, for an invention for—"An improved manufacture of buttons, and the apparatus employed therein." *Letters Patent sealed.*

SAMUEL.
16th November 1858.

2573. JAMES SAMUEL, of Great George Street, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in sleepers or bearers for rails." *Letters Patent sealed.*

TAYLOR.
16th November 1858.

2574. SAMUEL TAYLOR, of the Temple, London, for an invention for—"Improvements in fountain pens." *Provisional protection only.*

PERRY. 16th November 1858.

2575. CHARLES JAMES CLOWES PERRY, of Williamstown, in the Colony of Victoria, Member of the Legislative Assembly, for an invention for—"An instrument to be used chiefly on board ship for approximating in certain cases the course of an approaching vessel, either in the day or night, and the relative angle of both ships' courses, in order to avoid a collision:—to be called Perry's anti-collision dial." *Complete specification; Letters Patent sealed.*

JOHNSON. SHEPHERD. 16th November 1858.

2576. WILLIAM BECKETT JOHNSON, Manager, and JOSEPH SHEPHERD, Foreman to Messrs. Richard Ormerod and Son, Engineers, of Manchester, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for adjusting the permanent way of railways." *Provisional protection only*

KNAUTH. 16th November 1858.

2577. THEODOR KNAUTH, of New York, in the United States of America, Merchant, but now residing at Morley's Hotel, in the City of Westminster, for an invention for—"Improvements in fire-arms and ordnance."—*A communication.* *Provisional protection only.*

BRUÈRE. 16th November 1858.

2578. ALEXANDRE MARTIN BRUÈRE, of Paris, in the Empire of France, Gentleman, for an invention for—"The novel application of hydrogen gas to various purposes in the arts." *Provisional protection only.*

GATTY. 17th November 1858.

2579. FREDERICK ALBERT GATTY, of Accrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in producing certain colors on cotton, linen, and silk fabrics." *Letters Patent sealed.*

HOGA. PIGGOTT. BEARDMORE. 17th November 1858.

2580. STANISLAS HOGA, of N° 14, Nassau Street, Middlesex Hospital, WILLIAM PETER PIGGOTT, of No. 16, Argyle Street, Regent Street, and SEPTIMUS BEARDMORE, of No. 37, Upper Berkeley Street West, for an invention for—"Improvements in electric telegraphs." *Letters Patent sealed.*

MUIR. M°ILWHAM. 17th November 1858.

2581. MATTHEW ANDREW MUIR, of Glasgow, in the County of Lanark, North Britain, Machinist, and JAMES M°ILWHAM, of the same place, Machinist, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

VASSEROT. 17th November 1858.

2582. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"A waterproof coating."—*A communication from Louis Xavier Beuchot, residing at Nesle (Somme), in the Empire of France.* *Provisional protection only.*

VASSEROT. 17th November 1858.

2583. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"A flat clothes smoothing iron with moveable handles."—*A communication from Francisque Rousserie, residing at Marseilles, in the Empire of France.* *Letters Patent sealed.*

TUCK. 17th November 1858.

2584. JOSEPH HENRY TUCK, of Great George Street, Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the mode of laying and securing telegraphic cables, and in apparatus for the same and for carrying on other operations under water." *Letters Patent sealed.*

HAYDEN. 17th November 1858.

2585. DANIEL WEBSTER HAYDEN, of No. 4, Coleman Street, Arlington Square, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for heating water and other liquids." *Provisional protection only.*

WELCH. 17th November 1858.

2586. EDWARD WELCH, of 63, St. John's Square, Clerkenwell, Tobacco Manufacturer, for an invention for—"Improvements in the manufacture of tobacco and in apparatus therefor." *Letters Patent sealed.*

ROBERTSON. 17th November 1858.

2587. JOHN ROBERTSON, of Saint Ninian's, in the County of Stirling, North Britain, Gentleman, for an invention for—"Improvements in musical instruments." *Letters Patent sealed.*

SCOTT. 17th November 1858.

2588. MICHAEL SCOTT, of 3, Stanhope Terrace, Hyde Park Gardens, in the County of Middlesex, for an invention for—"Improvements in the construction of breakwaters, parts of which are applicable in making other structures." *Letters Patent sealed.*

MELLOR. 17th November 1858.

2589. EDMUND MELLOR, of Rochdale, in the County of Lancaster, Engineer, for an invention for—"Improvements in mules and other machinery for spinning cotton and other fibrous substances, whereby the cop will be built much firmer, and prevent snarls in the yarn." *Letters Patent sealed.*

CATON.
17th November 1858.

2590. MATTHEW CATON, of Preston, in the County of Lancaster, Overlooker of Looms, for an invention for—"Improvements in the treading motion of looms for weaving, and also in shuttle boxes and swells connected therewith."
Letters Patent sealed.

BRENNAND.
17th November 1858.

2591. JOHN BRENNAND, of Manchester, in the County of Lancaster, Calico Printer, for an invention for—"An improvement in ploughs and in other agricultural implements, and in the method of driving the same." *Letters Patent sealed.*

BROOMAN.
17th November 1858.

2592. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in apparatus for the manufacture of lace and net."—*A communication from Messrs. A. Grivel, Jun^r^, and J. F. V. Moulleron, both residing in Paris.* *Letters Patent sealed.*

WHEATCROFT.
17th November 1858.

2593. SAMUEL WHEATCROFT, of Brudenell Place, New North Road, in the County of Middlesex, Engineer, for an invention for—"Improved apparatus for uniting lace to blond and other fabrics." *Provisional protection only.*

PLATT.
CHUBB.
7th November 1858.

2594. JOHN PLATT, of Oldham, in the County of Lancaster, Mechanical Engineer, and HARRY CHUBB, of Brecknock Crescent, Camden Town, in the County of Middlesex, Gentleman, for an invention for—"Improvements in machinery or apparatus for making bricks or tiles."—*Partly a communication.*
Letters Patent sealed.

CLARK.
7th November 1858.

2595. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"A process of thickening, strengthening, and improving tanned hides."—*A communication from Antoine Louis Adolphe Favier, residing at Nancy, in the Empire of France.* *Letters Patent sealed.*

DOUGLAS.
17th November 1858.

2596. HOWARD DOUGLAS, Baronet, of Green Street, Grosvenor Square, in the County of Middlesex, General H.M.S., for an invention for—"Improvements in screw propellers." *Provisional protection only.*

CLARK.
7th November 1858.

2597. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"An improved bit or bridle for horses."—*A communication from Leonard Varéille and Louis Henry Drevet.*
Provisional protection only.

RILEY.
[illegible] th November 1858.

2598. SAMUEL RILEY, of Oldham, in the County of Lancaster, Stamp Distributor and Agent, for an invention for—"Improvements in the manufacture of hats, bonnets, and caps." *Letters Patent sealed.*

COWPER.
8th November 1858.

2599. CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in assorting and separating combed fibres, and in machinery for that purpose."—*A communication from M. Ziegler, residing at Guebwiller, in France.*
Letters Patent sealed.

BRIOLLET.
8th November 1858.

2600. ETIENNE BRIOLLET, of 58, Torrington Square, County of Middlesex, for an invention for—"The obtaining of caloric by a new chemical and mechanical process."—*A communication from Mr. Mundo, resident at Naples, in the Kingdom of Sicily.* *Provisional protection only.*

BRIGHT.
18th November 1858.

2601. Sir CHARLES TILSTON BRIGHT, of Harrow Weald, in the County of Middlesex, for an invention for—"Improvements in insulators and an improved mode of connecting insulators to posts and other supports." *Letters Patent sealed.*

SHARP.
SHARP.
18th November 1858.

2602. JOHN SHARP, and HENRY SHARP, of Bradford, in the County of York, Jacquard Machine Makers, for an invention for—"Improvements in jacquard machines employed in weaving." *Provisional protection only.*

STOTT.
18th November 1858.

2603. HENRY STOTT, of Greetland, near Halifax, in the County of York, Cotton Warp Manufacturer, for an invention for—"Improvements in warping-mills or apparatus connected therewith." *Letters Patent sealed.*

LESLIE.
18th November 1858.

2604. JOHN LESLIE, of Conduit Street, St. George's, Hanover Square, in the County of Middlesex, for an invention for—"Improvements in the manufacture of gas." *Letters Patent sealed.*

OAKES.
18th November [illegible]

2605. JOHN OAKES, of Exeter Row, Birmingham, in the County of Warwick, Spur Manufacturer, for an invention for—"Improvements in the manufacture of spurs." *Letters Patent sealed.*

MILLER.
FEAR.
18th November 1858.

2606. JOHN MAY MILLER, of Barnstaple, in the County of Devon, Lace Manufacturer, and JOHN FEAR, of the same place, Machinist, for an invention for—"Improvements in machinery for winding fibrous substances or materials when in the form of thread or yarn on to the bobbins or wheels used in lace machinery."
Letters Patent sealed.

STOTEN.
18th November 1858.

2607. DANIEL STOTEN, of Ponder's End, in the County of Middlesex, Blacksmith, for an invention for—"Improvements in plough shares."
Provisional protection only.

ARCHER.
18th November 1858.

2608. ELISHA THOMAS ARCHER, of Bridgefield House, Wandsworth, in the County of Surrey, Paper Manufacturer, for an invention for—"Improvements in hat ventilators and for appliances connected therewith." *Letters Patent sealed.*

RIDER.
18th November 1858.

2609. BENJAMIN RIDER, of 61, Red Cross Street, Boro', in the County of Surrey, Leather Dresser and Hat Leather Manufacturer, for an invention for—"Improvements in ventilating hats and caps, and in the preparation or manufacture of the material of which those articles are made." *Letters Patent sealed.*

MARCHAND.
MARCHAND.
MARCHAND.
19th November 1858

2610. PIERRE MARCHAND, EMILE MARCHAND, and JESSE MARCHAND, Brothers, of Dunkirk, in France, for an invention for—"A new process for refining lamp oil." *Provisional protection only.*

BROWN.
19th November 1858.

2611. JOHN BROWN, of Bolton-le-Moors, in the County of Lancaster, Iron Founder and Machine Maker, for an invention for—"Certain improvements in index and jacquard machines." *Provisional protection only.*

HAYWARD.
19th November 1858.

2612. WILLIAM STEPHENS HAYWARD, of Wittenham House, Abingdon, in the County of Berkshire, Gentleman, for an invention for—"Improvements in the manufacture of a glutinous and viscous substance or dextrine, to be used in the manufacture of paper and in dressing textile fabrics, by which greater tenaciousness, smoothness of surface, and body is obtained." *Letters Patent sealed.*

HOWE.
NORTON.
19th November 1858.

2613. GEORGE HOWE, Engineer, and JOHN NORTON, Plumber, both of Sheffield, in the County of York, for an invention for—"An improved method of boiling water or worts for brewerys, distillerys, &c., by steam, or for heating rooms, public buildings, churches, chapels, factorys, &c." *Letters Patent sealed.*

LEECH.
LEECH.
19th November 1858.

2614. SAMUEL COLLIER LEECH, and JOHN LEECH, both of Manchester, in the County of Lancaster, Machinists, for an invention for—"Certain improvements in the construction of self-acting temples to be employed in looms for weaving."
Provisional protection only.

EDWARDS.
19th November 1858.

2615. JOHN EDWARDS, of 77, Aldermanbury, in the City of London, for an invention for—"Improvements in the manufacture of trowser buttons."
Provisional protection only.

HANCOCK.
19th November 1858.

2616. WALTER HANCOCK, of Upper Chadwell Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of electric telegraph wires and cables." *Letters Patent sealed.*

VASSEROT.
19th November 1858.

2617. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved apparatus for condensing and cooling vapours and liquids."—*A communication from Louis Fialon, residing at Lyons, in the Empire of France.* *Provisional protection only.*

HENSON.
19th November 1858.

2618. HENRY HENSON HENSON, of 38, Parliament Street, in the City of Westminster, for an invention for—"Improvements in waterproofing fabrics or materials."
Letters Patent sealed.

RAMSCAR.
SCOTT.
19th November 1858.

2619. WILLIAM RAMSCAR, and JOHN GRAY SCOTT, of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements in fire-arms."
Letters Patent sealed.

PONTIFEX.
19th November 1858.

2620. EDMUND ALFRED PONTIFEX, of the firm of Pontifex and Wood, of Shoe Lane, in the City of London, Engineers and Copper Smiths, for an invention for—"Improvements in external surface condensers." *Letters Patent sealed.*

BAILEY.
19th November 1858.

2621. HENRY BAILEY, of 35, Golden Square, in the County of Middlesex, Warehouseman, for an invention for—"Improvements in heating razors."
Letters Patent sealed.

CLARK.
19th November 1858.

2622. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in purifying natural phosphates of lime."—*A communication from Emile Constant Martin, residing at Paris, in the Empire of France, formerly Banker.* *Letters Patent sealed.*

FELTON.
19th November 1858.

2623. ALFRED FELTON, of 184, Brick Lane, Spitalfields, in the County of Middlesex, Currier, for an invention for—"Improvements in fastening buttons and studs to dress and other articles." *Provisional protection only.*

LUEDEKE.
9th November 1858.

2624. JOHAN ERNST FRIDRICH LUEDEKE, of Marke, in the Kingdom of Hanover, and of Chipping Norton, in the County of Oxford, Engineer, for an invention for—"Improvements in motive-power engines." *Provisional protection only.*

MARSHALL.
19th November 1858.

2625. WILLIAM MARSHALL, of Leith Walk, in the County of Midlothian, North Britain, Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

JOHNSON.
19th November 1858.

2626. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the construction of electric telegraph cables or conductors."—*A communication from Henry J. Rogers, resident at Baltimore, Maryland, in the United States of America.* *Letters Patent sealed.*

THORMAN.
9th November 1858.

2627. ARTHUR JAMES THORMAN, of 8, Lime Street, in the City of London, Ship Agent, for an invention for—"Improvements in chain cables and chains." *Letters Patent sealed.*

EASTON.
AMOS.
19th November 1858.

2628. JAMES EASTON, the elder, and CHARLES EDWARDS AMOS, both of the Grove, in the Borough of Southwark, Engineers, for an invention for—"Improved apparatus applicable to drains, sewers, and watercourses, for the purpose of removing extraneous solid matters therefrom." *Letters Patent sealed.*

NEWTON.
19th November 1858.

2629. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for transmitting motive-power."—*A communication.* *Letters Patent sealed.*

CRESSEY.
19th November 1858.

2630. THOMAS STOKES CRESSEY, of High Street, Homerton, in the County of Middlesex, for an invention for—"Improvements in machinery used in the manufacture of casks." *Letters Patent sealed.*

WARRY.
20th November 1858.

2631. ROBERT WARRY, Armourer Sergent, 3rd Depôt Battalion, Chatham, for an invention for—"Loading cannon at the breech." *Provisional protection only.*

WADSWORTH.
20th November 1858.

2632. JAMES WADSWORTH, of Salford, in the Parish of Manchester, and County of Lancaster, Machinist, for an invention for—"Improvements in gas-burners, and in the means or methods of and in apparatus for moderating or retarding, regulating, or governing the flow and pressure of gas used for purposes of illumination, and in street lamps or lanterns for shielding flame from the action of wind and rain." *Letters Patent sealed.*

VASSEROT.
20th November 1858.

2633. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"Improvements in fire-arms and ordnance, and in the projectiles to be used therewith."—*A communication from Peter Rector Smith, of 2, Rue Ste. Appoline, Paris, in the Empire of France, now residing in the United States of America.* *Letters Patent sealed.*

ROWAN.
ROBERTSON.
20th November 1858.

2634. DAVID ROWAN, and STEWART ROBERTSON, of Greenock, in the County of Renfrew, North Britain, Engineers, for an invention for—"Improvements in steam-engines." *Provisional protection only.*

ELLIS.
20th November 1858.

2635. HENRY ELLIS, of Holbeach, in the County of Lincoln, Engineer and Agricultural Implement Maker, for an invention for—"Improvements in machinery or apparatus for cultivating, cleaning, and pulverizing land." *Letters Patent sealed.*

TOMLISON.
20th November 1858.

2636. CHARLES TOMLISON, of Worcester Street, Wolverhampton, in the County of Stafford, Accountant, for an invention for—"Improvements in stop taps or valves." *Letters Patent sealed.*

CUIT.
20th November 1858.

2637. CHARLES CUIT, of Paris, in the Empire of France, Manufacturer, for an invention for—"Improvements in railway brakes." *Letters Patent sealed.*

LEA.
20th November 1858.

2638. WILLIAM LEA, of the firm of William and John Lea, of Wolverhampton, in the County of Stafford, Brass Founders and Cock Makers, for an invention for—"A method of lubricating cocks and taps." *Letters Patent sealed.*

BROOMAN.
20th November 1858.

2639. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in the manufacture of dolls, statuettes, figures of animals and others, and toys."—*A communication from A. F. E. Robert, residing in Paris.* *Provisional protection only.*

JORDAN.
20th November 1858.

2640. HENRY JORDAN, of Liverpool, in the County of Lancaster, Ship Builder, for an invention for—"Improvements applicable to navigable vessels." *Letters Patent sealed.*

EVANS.
20th November 1858.

2641. DANIEL EVANS, of Chobham Cottages, New Town Stratford, in the County of Essex, for an invention for—"Improvements in tubular steam-boilers and fireplaces or furnaces used therewith." *Letters Patent sealed.*

PERCIVALL.
HOUGHTON.
20th November 1858.

2642. LOVIBOND PERCIVALL, of Birmingham, in the County of Warwick, Manager of Glass Works, and JOHN HOUGHTON, of Edgbaston, in the County of Warwick, Glass Merchant, for an invention for—"Improvements in attaching knobs of glass, china, and earthenware to the spindles of locks and latches, and to doors, drawers, and other articles." *Provisional protection only.*

YOUNG.
20th November 1858.

2643. JOHN YOUNG, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—"Improvements in fastenings for window-sashes and casements, and in chain used for suspending window-sashes." *Letters Patent sealed.*

SWAN.
20th November 1858.

2644. HENRY SWAN, of 5, Bishopsgate Without, in the City of London, for an invention for—"Improvements in stereoscopes and other optical instruments, and in stands or supports for stereoscopes." *Provisional protection only.*

BODEN.
COOPER.
20th November 1858.

2645. HENRY BODEN, of Crescent Cottage, Cambridge Heath, Hackney, in the County of Middlesex, Silk Manufacturer, and THOMAS COOPER, of Ann's Place, Hackney Road, in the same County, Machinist, for an invention for—"Improvements in plaiting or braiding machinery." *Provisional protection only.*

GARDINER.
20th November 1858.

2646. HEMAN GARDINER, of the City of New York, in the United States of America, Mechanical Engineer, for an invention for—"Improvements in the compound axle hub and wheel for railroad cars." *Letters Patent sealed.*

MELLOR.
22nd November 1858.

2647. CHARLES HANSON MELLOR, of Oldham, in the County of Lancaster, Manager, for an invention for—"An improved manufacture of woven fabrics." *Provisional protection only.*

NELSON.
22nd November 1858.

2648. ROBERT NELSON, of New York, in the United States of America, temporarily residing at Ramsey, in the Isle of Man, Mariner, for an invention for—"Improvements in apparatus for raising and lifting water and other liquids." *Letters Patent sealed.*

THEROULDE.
22nd November 1858.

2649. FRANÇOIS ALPHONSE THEROULDE, of 67, Rue Caumartin, Paris, for an invention for—"Improvements in obtaining salts and products from the ashes of marine plants." *Letters Patent sealed.*

JOHNSON.
VARLEY.
22nd November 1858.

2650. SAMUEL WAITE JOHNSON, and JAMES VARLEY, both of Peterborough, in the County of Northampton, Engineers, for an invention for—"Improvements in pressure and vacuum gauges." *Letters Patent sealed.*

NEWTON.
22nd November 1858.

2651. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for propelling and steering vessels."—*A communication.* *Letters Patent sealed.*

BENTALL.
22nd November 1858.

2652. EDWARD HAMMOND BENTALL, of Heybridge, in the County of Essex, Ironfounder, for an invention for—"An improvement in the construction of turnip cutters." *Letters Patent sealed.*

SPENCER.
22nd November 1858.

2653. THOMAS SPENCER, of the firm of John Spencer and Sons, of Newcastle-upon-Tyne, Steel and Spring Manufacturers, for an invention for—"Improvements in the manufacture or construction of springs." *Letters Patent sealed.*

RALSTON. 23rd November 1858.

2654. WALTER RALSTON, of the City of Manchester, in the County of Lancaster, Engraver to Calico Printers, for an invention for—"Improvements in embossing and finishing woven fabrics, and in the machinery or apparatus employed therein." *Letters Patent sealed.*

DAWES. 23rd November 1858.

2655. WILLIAM HENRY DAWES, of Bromford Ironworks, West Bromwich, in the County of Stafford, Iron Master, for an invention for—"An improvement in forge hammers and in the anvils used with forge hammers and squeezers." *Letters Patent sealed.*

GORMAN. 23rd November 1858.

2656. WILLIAM GORMAN, of Glasgow, in the County of Lanark, North Britain, Engraver, for an invention for—"Improvements in furnaces and in the combustion of fuel, and in apparatus connected therewith." *Letters Patent sealed.*

FAIRWEATHER. 23rd November 1858.

2657. JAMES FAIRWEATHER, of Dundee, in the County of Forfar, North Britain, for an invention for—"Improvements in weaving bags, sacks, and other tubular fabrics." *Provisional protection only.*

DE CHODZKO. 23rd November 1858.

2658. NAPOLEON FELIX BOREIKO DE CHODZKO, of Paris, Town in the French Empire, for an invention for—"A smoke preventing apparatus." *Provisional protection only.*

NEWTON. 23rd November 1858.

2659. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in retorts for generating illuminating gas."—*A communication.* *Provisional protection only.*

NEWTON. 23rd November 1858.

2660. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for sweeping floors."—*A communication.* *Letters Patent sealed.*

WARNE. JAQUES. FANSHAWE. 23rd November 1858.

2661. WILLIAM WARNE, JAMES ARCHIBALD JAQUES, and JOHN AMERICUS FANSHAWE, all of Tottenham, in the County of Middlesex, India-rubber Manufacturers, for an invention for—"An improved fabric applicable for covering floors and walls and for other analogous purposes." *Letters Patent sealed.*

HUGHES. 24th November 1858.

2662. RICHARD HUGH HUGHES, of Hatton Garden, in the County of Middlesex, Engineer, for an invention for—"Improvements in means or apparatus employed when lighting by gas." *Letters Patent sealed.*

BROOMAN. 24th November 1858.

2663. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"An improvement in cigar cases."—*A communication from G. Scriba, residing in Paris.* *Letters Patent sealed.*

SHAW. 24th November 1858.

2664. SIR CHARLES SHAW, of Old Cavendish Street, in the County of Middlesex, Brigadier General, for an invention for—"Improvements in the construction of ball and bullet proof shields or mantlets." *Provisional protection only.*

NEWTON. 24th November 1858.

2665. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in mills for grinding corn."—*A communication.* *Provisional protection only.*

NEWTON. 24th November 1858.

2666. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for making bolts and rivets."—*A communication.* *Letters Patent sealed.*

HESS. 24th November 1858.

2667. RICHARD HENRY HESS, of Islington, in the County of Middlesex, Engineer, for an invention for—"A new manufacture of articles, parts of articles, parts of machinery surfaces and ornamental works, from talc and other silicates of magnesia." *Letters Patent sealed.*

PETERSON. 24th November 1858.

2668. CHARLES PETERSON, of Lowcliffe Lodge, Isle of Wight, in the County of Hants, Gentleman, for an invention for—"Improvements in the manufacture of paper cartridges and in paper applicable for waterproof purposes." *Letters Patent sealed.*

NIBBS. 24th November 1858.

2669. JAMES SYSON NIBBS, of the Manor of Aston, in the County of Warwick, Lamp and Chandelier Manufacturer, for an invention for—"Improvements in lighting, heating, and ventilating." *Letters Patent sealed.*

JOHNSON. 24th November 1858.

2670. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the employment of electricity as a motive-power."—*A communication.* *Provisional protection only.*

AMOS. 25th November 1858.

2671. CHARLES EDWARDS AMOS, of the Grove, in the Borough of Southwark, Engineer, for an invention for—"Improved apparatus for raising and supporting ships or vessels while undergoing repair, which apparatus is also applicable for facilitating the passage of ships or vessels over bars, sand banks, or in shallow waters." *Letters Patent sealed; no specification filed.*

CALVERT. LOWE. 25th November 1858.

2672. FREDERICK CRACE CALVERT, of the City of Manchester, Professor of Chemistry, and CHARLES LOWE, of the same place, Analytical Chemist, for an invention for—"Improvements in the manufacture of size." *Letters Patent sealed.*

EASTWOOD. 25th November 1858.

2673. HENRY EASTWOOD, of Elland, near Halifax, in the County of York, Machine Maker, for an invention for—"Improvements in purifying gas for illuminating purposes." *Provisional protection only.*

BODMER. 25th November 1858.

2674. RUDOLPH BODMER, of 2, Thavies Inn, Holborn, London, for an invention for—"Improvements in valves for regulating the supply of steam."—*A communication.* *Letters Patent sealed.*

LUIS. 25th November 1858.

2675. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"A safe guard against burglars."—*A communication from Serge Krotkoff.* *Complete specification; Letters Patent sealed.*

VASSEROT. 25th November 1858.

2676. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved petticoat and bustle."—*A communication from Alexandre Braconnier, residing at Paris, in the Empire of France.* *Provisional protection only.*

NUTTALL. RIDING. COULTHURST. 25th November 1858.

2677. JAMES NUTTALL, Beer Retailer, Old Accrington, GEORGE RIDING, of Clayton-le-Moors, Medical Botanist, and WILLIAM COULTHURST, Chemist, Old Accrington, all in the County of Lancaster, for an invention for—"Improvements in sizes for sizeing cotton, linen, or other warps or yarns for weaving." *Provisional protection only.*

MABERLY. 25th November 1858.

2678. FREDERICK HERBERT MABERLY, of Stowmarket, in the County of Suffolk, Master of Arts, for an invention for—"Improvements in candlesticks." *Letters Patent sealed.*

PARKER. 25th November 1858.

2679. CHARLES PARKER, of Dundee, in the County of Forfar, North Britain, Engineer, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

LOOS. 25th November 1858.

2680. FREDERICK LOOS, of Mercer Street, Long Acre, London, for an invention for—"Improvements in gas regulators." *Letters Patent sealed.*

MATHER. 25th November 1858.

2681. COLIN MATHER, of Salford, in the County of Lancaster, Machinist, for an invention for—"An improved steam trap or apparatus for allowing the escape of water and air from pipes, vessels, or chambers heated by steam." *Letters Patent sealed.*

BURTON. 25th November 1858.

2682. WILLIAM BURTON, of the firm of Burton and Garraway, of Bethnal Green, in the County of Middlesex, Orchil, Cudbear, and Extract of Indigo Manufacturers, for an invention for—"Improvements in preparing coloring matter for dyeing." *Provisional protection only.*

LUIS. 26th November 1858.

2683. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"A new sort of drawers or trowsers for ladies or children."—*A communication from Celina Gobert.* *Letters Patent sealed.*

HARRISON. 26th November 1858.

2684. JOHN HARRISON, of Blackburn, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in rollers applicable to sizing, dressing, calendering, and squeezing machines." *Provisional protection only.*

DIXON. FISHER. November 1858.

2685. EDWARD DIXON, of Wolverhampton, in the County of Stafford, Manufacturer, and JOHN FISHER, of Wolverhampton, aforesaid, Tube Drawer, for an invention for—"An improvement in the manufacture of welded iron tubes." *Letters Patent sealed.*

BOWIE. 26th November 1858.

2686. ANDREW BOWIE, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in governors for marine engines."
Provisional protection only.

MEYERS. 26th November 1858.

2687. MICHAEL MEYERS, of No. 9, Great Alie Street, Goodman's Fields, London, Umbrella and Parasol Manufacturer, for an invention for—"Improvements in parasols." *Letters Patent sealed.*

MENNONS. 26th November 1858.

2688. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved manufacture of leather."—*A communication from a French Subject residing at Civita Vecchia.* *Provisional protection only.*

RICHARDSON. 26th November 1858.

2689. GEORGE RICHARDSON, of 1, New Broad Street, in the City of London, Metal Merchant and Contractor, for an invention for—"Improvements in machinery or apparatus for pressing bales of goods."—*A communication.*
Provisional protection only.

HUBBELL. ROLLASON. 26th November 1858.

2690. THEODORE BYRON HUBBELL, and GEORGE JAMES ROLLASON, both of Castle Street, in the County of Middlesex, Manufacturers, for an invention for—"Improved apparatuses for brightening and polishing metal surfaces."
Provisional protection only.

BOOTH. 26th November 1858.

2691. JOHN BILLINGTON BOOTH, of Preston, in the County of Lancaster, Spindle Manufacturer, for an invention for—"Improvements in machinery or apparatus for preparing, spinning, doubling, and winding cotton and other fibrous materials." *Letters Patent sealed.*

RICHARDS. 26th November 1858.

2692. WILLIAM RICHARDS, of the Gas Works, Barcelona, in the Kingdom of Spain, Engineer, but now of Harpur Street, Red Lion Square, in the County of Middlesex, for an invention for—"Improvements in the construction of gas-meters."
Letters Patent sealed.

GRIFFITHS. BRENNAND. 26th November 1858.

2693. PRICE GRIFFITHS, and JOHN BRENNAND, both of Burnley, in the County of Lancaster, Engineers, &c., for an invention for—"Improvements in lubricators for introducing lubricating matter into steam cylinders and other chambers or parts under pressure." *Letters Patent sealed.*

SPRATT. 27th November 1858.

2694. JAMES SPRATT, of 71, College Street, Camden Town, in the County of Middlesex, for an invention for—"Improvements in the manufacture and strengthening of paper." *Provisional protection only.*

TANGYE. 27th November 1858.

2695. JAMES TANGYE, of Birmingham, in the County of Warwick, Machinist, for an invention for—"An improvement in hydraulic presses."
Letters Patent sealed.

RAMSBOTTOM. 27th November 1858.

2696. JOHN RAMSBOTTOM, of Accrington, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery or apparatus applicable to water meters, and to indicating and regulating the flow and pressure of fluids generally, and in obtaining motive-power from the same." *Letters Patent sealed.*

COLLIER. 27th November 1858.

2697. GEORGE COLLIER, of Halifax, in the County of York, Engineer, for an invention for—"Improvements in means or apparatus employed in weaving."
Provisional protection only.

ALEXANDER. 27th November 1858.

2698. ROBERT ALEXANDER, of Dillichip, in the County of Dumbarton, North Britain, Bleacher, for an invention for—"Improvements in treating, preparing, and bleaching textile fabrics and other materials." *Letters Patent sealed.*

KINNEAR. POSENER. 27th November 1858.

2699. FREDERICK CONSTANTINE KINNEAR, of Hoxton, and DAVID POSENER, of Windmill Street, Haymarket, both in the County of Middlesex, for an invention for—"Improvements in the means of preserving life and property in navigation."
Provisional protection only.

PATTINSON. 27th November 1858.

2700. HUGH LEE PATTINSON, of Stotes Hall, Jesmond, Newcastle-upon-Tyne, for an invention for—"Improvements in utilizing the heat of slags of iron and other works." *Letters Patent sealed; no specification filed.*

BURRELL. 27th November 1858.

2701. CHARLES BURRELL, of Thetford, in the County of Norfolk, Engineer, for for an invention for—"Improvements in traction engines and carriages."
Letters Patent sealed.

SANDER.
27th November 1858.

2702. GEORGE BOWDEN SANDER, of High Holborn, in the County of Middlesex, for an invention for—"Improvements in jugs." *Letters Patent sealed.*

TILLIE.
27th November 1858.

2703. WILLIAM TILLIE, of the City of Londonderry, Ireland, Shirt Manufacturer, for an invention for—"An improvement in the manufacture of shirts and shirt fronts." *Provisional protection only.*

DIGGLE.
27th November 1858.

2704. SQUIRE DIGGLE, of Ratcliffe, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in pattern chains or other such apparatus used in weaving." *Letters Patent sealed.*

GERNER.
27th November 1858.

2705. HENRY GERNER, of No. 2, Garway Road, Bayswater, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the mode of and apparatus for manufacturing gas for illumination and heating." *Provisional protection only.*

POSSOZ.
29th November 1858.

2706. LOUIS ANTOINE POSSOZ, Chemist, of Rue Neuve St. Augustin, No. 9, Paris, in the Empire of France, for an invention for—"Manufacturing alkalies and obtaining simultaneously other chemical products." *Letters Patent sealed.*

OATES.
29th November 1858.

2707. GEORGE OATES, of Gatefield Works, Sheffield, in the County of York, Scissors Manufacturer, for an invention for—"Improvements in the manufacture of scissors."—*A communication.* *Letters Patent sealed.*

STARBUCK.
29th November 1858.

2708. MOSES STARBUCK, of New York, in the County of New York, and State of New York, and United States of America, for an invention for—"A static pressure engine." *Provisional protection* NOT *granted.*

PERRARE-MICHAL.
29th November 1858.

2709. FRANÇOIS SOCRATE PERRARE-MICHAL, of No. 20, Rue de la Chausée d'Antin, in the City of Paris, France, Gentleman, for an invention for—"Improvements in the manufacture of bridles (without bits and without curb chains) for riding, driving, or otherwise conducting horses." *Provisional protection only.*

COLLIER.
NOBLE.
29th November 1858.

2710. GEORGE COLLIER, and WILLIAM NOBLE, both of Halifax, in the County of York, for an invention for—"Improvements in means or apparatus for the manufacture of spokes for carriage wheels, which improvements are also applicable to the cutting of wood for other purposes." *Letters Patent sealed.*

NEWTON.
29th November 1858.

2711. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved expansion or cut-off gear for steam-engines."—*A communication.* *Letters Patent sealed.*

HADFIELD.
29th November 1858.

2712. GEORGE HADFIELD, of Carlisle, Varnish Manufacturer, for an invention for—"Improvements in the construction of carboys, barrels, and other vessels of capacity." *Letters Patent sealed.*

PARSONS.
29th November 1858.

2713. WILLIAM PARSONS, of Bitterin, near Southampton, in the County of Hants, Bricklayer, for an invention for—"Doing away with the smell arising from the melting fat, tallow, &c., and also for an improvement in stirring and straining the same." *Letters Patent sealed.*

HANCOCK.
29th November 1858.

2714. CHARLES HANCOCK, of West Street, Smithfield, in the City of London, Gutta-percha Manufacturer, for an invention for—"Certain improvements in the insulation and manufacture of electric telegraph wires and cables." *Letters Patent sealed.*

LEA.
SHERRING.
29th November 1858.

2715. JOHN LEA, and WILLIAM ALEXANDER SHERRING, both of Cecil Court, St. Martin's Lane, in the County of Middlesex, for an invention for—"Improvements in the treatment of vegetable fibres for the manufacture of paper, spinning, and other purposes." *Provisional protection only.*

HENRY.
29th November 1858.

2716. WILLIAM ARTHUR HENRY, of Sheffield, in the County of York, Engineer, for an invention for—"Improvements in machinery or apparatus for attaching the soles and heels of boots and shoes to the upper leathers, and in the fastenings employed for that purpose." *Letters Patent sealed.*

JOHNSON.
29th November 1858.

2717. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in locomotive engines."—*A communication.* *Letters Patent sealed.*

BLANJOT. 29th November 1858.

2718. JEAN BAPTISTE BLANJOT, of No. 8, Rue Thevenot, in the City of Paris, France, Merchant, for an invention for—"Improved petticoats for ladies."
Provisional protection only.

NORMANDY. 29th November 1858.

2719. LOUIS A. NORMANDY, Junior, of 67, Judd Street, Brunswick Square, London, for an invention for—"Improvements in manufacturing files."—*A communication.* *Provisional protection only.*

BEDELLS. 29th November 1858.

2720. CALEB BEDELLS, of Leicester, for an invention for—"Improvements in the manufacture of elastic fabrics, and the machinery employed in this manufacture."
Letters Patent sealed.

GRESHAM. 29th November 1858.

2721. JOHN GRESHAM, of Hull, Esquire, for an invention for—"Improvements in apparatus for preserving ships' papers and other papers and writings in case of the loss of or accident to a ship whilst at sea." *Letters Patent sealed.*

BENSEN. 29th November 1858.

2722. GERD JACOB BENSEN, of 7, Christian Street, St. George's in the East, for an invention for—"Improvements in cleansing or purifying animal charcoal after it has been employed by sugar refiners." *Provisional protection only.*

EVANS. JONES. 29th November 1858.

2723. DANIEL EVANS, of Chobham Cottages, New Town Stratford, in the County of Essex, and GEORGE JONES, of Charlotte Place, Upper Kennington Lane, in the County of Surrey, Engineers, for an invention for—"Improvements in pumps and water guages." *Letters Patent sealed.*

LUIS. 30th November 1858.

2724. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"A watch simplified with anchor escapements and rack forming a double lever catching in the pinion of its balance wheel."—*A communication from Antoine Lepage.* *Provisional protection only.*

LUIS. 30th November 1858.

2725. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"A new railroad with continued supports splintered together without any wood being used."—*A communication from Leon Barroux.*
Provisional protection only.

BURTON. 30th November 1858.

2726. ALFRED ALEXANDER BURTON, of 30, Wych Street, Strand, in the County of Middlesex, Machinist, for an invention for—"A moveable face and handle for smoothing irons." *Provisional protection only.*

MARKS. 30th November 1858.

2727. AARON MARKS, of London Wall, in the City of London, General Trimming Manufacturer, for an invention for—"Improvements in the manufacture of braided articles." *Provisional protection only.*

THOMSON. 30th November 1858.

2728. DAVID THOMSON, of Old Brompton, in the County of Middlesex, for an invention for—"Improvements in machinery for raising water and other liquids."
Provisional protection only.

THOW. HALL. 30th November 1858.

2729. JOHN THOW, and THOMAS MITCHESON HALL, both of Preston, in the County of Lancaster, Engineers, for an invention for—"Preventing the fusion of the fire-bars in locomotive or other furnaces." *Letters Patent sealed.*

SCHEIDEL. 30th November 1858.

2730. AUGUST EMIL CLEMENS SCHEIDEL, of the firm of Gouda, Scheidel, and Company, of Frankfort-on-the-Main, in Germany, and Watling Street, in the City of London, Manufacturers, for an invention for—"Improvements in fastenings for belts, braces, garters, books, porte-monnaies, portfolios, pocket books, invoice, writing, and cigar cases, reticules, bags, and other similar articles or purposes."—*A communication from P. F. Gouda.* *Letters Patent sealed.*

BOCCIUS. 30th November 1858.

2731. GOTTLIEB BOCCIUS, of Totnes, in the County of Devon, Gentleman, for an invention for—"Improvements in the construction of furnaces."
Provisional protection only.

NEWTON. 30th November 1858.

2732. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in telegraphing and in telegraphic apparatus."—*A communication.*
Provisional protection only.

COLYER. 30th November 1858.

2733. JOSEPH COLYER, of Leman Street, in the County of Middlesex, Cooper and Back Maker, for an invention for—"Improvements in machinery and apparatus for cutting and shaping staves and other parts of casks." *Letters Patent sealed.*

COULSON.
30th November 1858.

2734. JOHN COULSON, of the firm of J. and W. Midworth, of Newark, in the County of Nottingham, Engineers, for an invention for—"Improvements in threshing and dressing machines." *Letters Patent sealed.*

STENGER.
1st December 1858.

2735. AUGUST STENGER, of 4, Gresham Street, in the City of London, Commission Merchant, for an invention for—"Improvements in the manufacture of cravats, braces, belts, and waistbands." *Provisional protection only.*

BOW.
1st December 1858.

2736. ROBERT HENRY BOW, of Edinburgh, in the County of Midlothian, North Britain, Civil Engineer, for an invention for—"Improvements in railway chairs and fastenings." *Letters Patent sealed.*

LOACH.
COX.
1st December 1858.

2737. JOHN LOACH, Japanner, and JOHN COX, Electro Plater, both of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in ornamenting the surfaces of japanned goods, and which said improvements are also applicable to the ornamenting of certain other surfaces." *Provisional protection only.*

JONES.
1st December 1858.

2738. EDWARD JONES, of Dudley, in the County of Worcester, Manager of Iron Works, for an invention for—"An improvement or improvements in the manufacture of coke in ovens." *Letters Patent sealed.*

PURSSGLOVE.
1st December 1858.

2739. THOMAS PARAMORE PURSSGLOVE, of Battersea, in the County of Surrey, for an invention for—"An improved pressure gauge for steam, gas, or other fluids." *Letters Patent sealed.*

LAMING.
1st December 1858.

2740. RICHARD LAMING, of Hayward's Heath, in the County of Sussex, for an invention for—"Improvements in purifying gas, and in turning sulphuretted hydrogen, carbonic acid, and ammonia, or their compounds, to profitable account." *Letters Patent sealed.*

VASSEROT.
1st December 1858.

2741. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An apparatus for printing with different colours thread to be applied to the manufacture of textile fabrics."—*A communication from Adolphe Lequint, residing at Amiens, in the Empire of France.* *Provisional protection only.*

SAMUEL.
NICHOLSON.
1st December 1858.

2742. JAMES SAMUEL, of Great George Street, in the City of Westminster, Civil Engineer, and JOHN NICHOLSON, of Wellington Street, Bromley, in the County of Middlesex, Engineer, for an invention for—"Improvements in and in connection with marine and other steam-engines." *Letters Patent sealed.*

VINEY.
1st December 1858.

2743. EBENEZER VINEY, of the firm of John Viney and Son, of Cornhill, in the City of London, Portmanteau Manufacturers, for an invention for—"An improvement in the construction of portmanteaus, desks, dressing-cases, despatch boxes, and other like articles." *Letters Patent sealed.*

ADCOCK.
1st December 1858.

2744. HENRY ADCOCK, of the City Road, in the County of Middlesex, for an invention for—"Improvements in furnaces and apparatus for annealing wire." *Letters Patent sealed.*

WARNER.
DERBYSHIRE.
MANN.
1st December 1858.

2745. FREDERICK WARNER, of Jewin Street, in the City of London, JOHN DERBYSHIRE, of Longton, in the County of Stafford, and ALEXANDER MANN, of Little Britain, in the City of London, for an invention for—"An improvement in the manufacture of cocks or taps." *Letters Patent sealed.*

BALES.
1st December 1858.

2746. GEORGE WILLIAM BALES, of Ipswich, in the County of Suffolk, Gun Maker, for an invention for—"Improvements in apparatus for retaining doors, sashes, or frames when shut or closed." *Letters Patent sealed.*

BESSEMER.
1st December 1858.

2747. HENRY BESSEMER, of 4, Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in railway and other wheels and wheel tyres." *Provisional protection only.*

NEWINGTON.
1st December 1858.

2748. SAMUEL NEWINGTON, of Ticehurst, in the County of Sussex, for an invention for—"Improvements in agricultural implements." *Letters Patent sealed.*

DAVIS.
WRIGHT.
1st December 1858.

2749. ANN ELIZABETH DAVIS, of 1, Pulboro' Place, Harleyford Road, Vauxhall, and RICHARD WRIGHT, of 28, Grosvenor Park, Camberwell, both in the County of Surrey, for an invention for—"Improvements in the manufacture of colouring matter for spirits and other liquids." *Provisional protection only.*

FINCHAM. 1st December 1858.

2750. FREDERICK FINCHAM, of Ravenhead, in the County of Lancaster, Esquire, for an invention for—"Improvements in the construction of annealing kilns or ovens." *Letters Patent sealed.*

BISSELL. 1st December 1858.

2751. LEVI BISSELL, of the City and State of New York, United States of America, for an invention for—"Improvements in trucks for locomotive engines." *Letters Patent sealed.*

LEWIS. 1st December 1858.

2752. JOHN LEWIS, of Elizabeth, in the County of Essex, and State of New Jersey, United States of America, for an invention for—"Improvements in means for attaching sails to the yards of ships or vessels." *Letters Patent sealed.*

BENZON. 1st December 1858.

2753. EDMUND LEOPOLD BENZON, of Sheffield, in the County of York, Steel Manufacturer, for an invention for—"The manufacture of useful alloys of aluminium."—*A communication.* *Letters Patent sealed.*

MAC KIRDY. 2nd December 1858.

2754. LAUCHLAN MAC KIRDY, of the Glebe Sugar House, Greenock, in the County of Renfrew, North Britain, Sugar Refiner, for an invention for—"Improved combined bathing, washing, and water-closet apparatus." *Letters Patent sealed.*

MAC KIRDY. 2nd December 1858.

2755. LAUCHLAN MAC KIRDY, of the Glebe Sugar House, Greenock, in the County of Renfrew, North Britain, Sugar Refiner, for an invention for—"Improvements in the manufacture of sugar." *Letters Patent sealed.*

ROGERS. 2nd December 1858.

2756. JOSEPH ROGERS, of No. 9, Queen Square, Bartholomew Close, in the City of London, Rope Maker, for an invention for—"Improvements in the manufacture of ropes, cables, cords, and lines." *Provisional protection only.*

ROBERTSON. ORCHAR. 2nd December 1858.

2757. WILLIAM ROBERTSON, of Dundee, in the County of Forfar, North Britain, Engineer, and JAMES GUTHRIE ORCHAR, of the same place, Engineer, for an invention for—"Improvements in machinery or apparatus for winding yarns or threads." *Letters Patent sealed.*

TYSSEN. 2nd December 1858.

2758. JACOBUS TYSSEN, of Rotterdam, in the Kingdom of Holland, Mariner, for an invention for—"Improvements in obtaining and applying motive-power." *Provisional protection only.*

BAILLIE. 2nd December 1858.

2759. JOHN BAILLIE, of Vienna, in the Empire of Austria, Engineer, for an invention for—"Improvements in the construction of railway wheels." *Letters Patent sealed.*

SPILLER. 2nd December 1858.

2760. GEORGE SPILLER, of No. 15, Upper Southwick Street, in the County of Middlesex, a Lieutenant-Colonel in Her Majesty's Royal Artillery, for an invention for—"Improvements in knapsacks for military and other purposes." *Letters Patent sealed.*

HENRY. 3rd December 1858.

2761. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in manufacturing and revivifying bone black or animal charcoal, and in kilns and apparatus employed therein."—*A communication from J. A. Lagard.* *Letters Patent sealed.*

BAILEY. 3rd December 1858.

2762. THOMAS BAILEY, of New Orleans, United States, and of 17, Russell Street, Birmingham, in the County of Warwick, Gun Manufacturer, for an invention for—"A mechanical movement applicable to loading fire-arms and other purposes." *Letters Patent sealed.*

TOOKE. 3rd December 1858.

2763. MICHAEL TOOKE, of the City of Norwich, Tailor, for an invention for—"Improvements in apparatus for measuring the human figure and in applying the same for tracing out garments for the human figure." *Provisional protection only.*

NOONE. 3rd December 1858.

2764. GEORGE EDWARD NOONE, of No. 28, Hodson Street, Francis Street, Newington Butts, in the County of Surry, Engineer, for an invention for—"Certain improvements in machinery for generating gas from coal." *Letters Patent sealed.*

PETERS. 3rd December 1858.

2765. SAMUEL PETERS, of No. 12, Rue de la Briche, at St. Denis, near Paris, Mechanic, for an invention for—"Improvements in the manufacture of pipes and tubes, and in the apparatus employed therein." *Provisional protection only.*

JONES. 3rd December 1858.

2766. EDWARD STANTON JONES, of 13, Marylebone Street, Golden Square, in the County of Middlesex, Professor of Music, for an invention for—"Improvements in cornets, trumpets, horns, and similar musical wind instruments." *Provisional protection only.*

COATES.
3rd December 1858.

2767. CHARLES COATES, of Sunnyside, near Rawtenstall, in the County of Lancaster, Engineer, for an invention for—"Improvements in maundrills for printing." *Letters Patent sealed.*

VASSEROT.
3rd December 1858.

2768. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved apparatus for ventilating mines or other similar purposes."—*A communication from Mathias Welter, and George Bohringer, residing at Forbach, Moselle, in the Empire of France.* *Provisional protection only.*

VASSEROT.
3rd December 1858.

2769. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"Improved arrangements to be applied to window-sashes to prevent draughts and infiltration of water."—*A communication from Eugène Desrocques, residing at Havre, in the Empire of France.* *Provisional protection only.*

BEVAN.
3rd December 1858.

2770. HENRY BEVAN, of Shrewsbury, in the County of Salop, Accountant, for an invention for—"New or improved machines for effecting or facilitating arithmetical operations." *Letters Patent sealed.*

CAMERON.
4th December 1858.

2771. JOHN CAMERON, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in apparatus for the manufacture of sugar." *Letters Patent sealed; specification filed by order.*

LEGG.
4th December 1858.

2772. ROBERT LEGG, Millwright and Engineer, of 11, Ashby Street, Clerkenwell, in the County of Middlesex, for an invention for—"A machine for combining the operation of compressing and cutting tobacco during the process of manufacture." *Letters Patent sealed.*

FLETCHER.
4th December 1858.

2773. LAWRENCE WOOD FLETCHER, of Bleaklow, near Bury, in the County of Lancaster, Spinner and Manufacturer, for an invention for—"Improvements in the construction of electric telegraph cables." *Letters Patent sealed.*

FISHER
FISHER.
BIRD.
4th December 1858.

2774. JAMES BROOKS FISHER, and JOHN FISHER, of Stourbridge, in the County of Worcester, Fire Brick Manufacturers, and JAMES BIRD, the younger, of Kingswinford, in the County of Stafford, Agent, for an invention for—"An improvement in the doors and dampers of furnaces and other places where intense heat has to be resisted." *Letters Patent sealed.*

PICKERING.
4th December 1858.

2775. RALPH PICKERING, of Lockerbie, in the County of Dumfries, Railway Inspector, for an invention for—"Improvements in communicating signals from one part of a railway train to another." *Letters Patent sealed.*

SERVIER.
4th December 1858.

2776. EDOUARD ARISTIDE SERVIER, of Paris, in the Empire of France, Engineer, for an invention for—"Improvements in pressure and fluid level indicators." *Letters Patent sealed.*

SIBLEY.
4th December 1858.

2777. THOMAS SIBLEY, of Ashton-under-Lyne, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

SMITH.
TOWNSEND.
WILLIAMS.
4th December 1858.

2778. ALFRED SMITH, of Birmingham, in the County of Warwick, Manufacturer, and JAMES TOWNSEND, of Birmingham, aforesaid, Manufacturer, and EDWARD WALTER WILLIAMS, of Birmingham, aforesaid, Manufacturer, for an invention for—"An improvement or improvements in breech-loading fire-arms." *Provisional protection only.*

MONNIER.
4th December 1858.

2779. JEAN BAPTISTE ANTOINE MONNIER, of Nemours (Seine et Marne), France, for an invention for—"Improvements in actuating railway brakes." *Letters Patent sealed.*

TURNER.
4th December 1858.

2780. JOSIAH TURNER, of 8, Lavender Grove, Queen's Road, Dalston, in the County of Middlesex, for an invention for—"Improvements in the construction of chairs." *Provisional protection only.*

YATES.
4th December 1858.

2781. HENRY THOMAS YATES, of Hounds Gate, Nottingham, for an invention for—"Improvements in the manufacture of boards or sheets when wood saw dust is used." *Letters Patent sealed.*

NORTON.
4th December 1858.

2782. JAMES LEE NORTON, of Belle Sauvage Yard, Ludgate Hill, in the City of London, for an invention for—"Improvements in machines for stretching and drying fabrics, and in drying wool and other fibres." *Provisional protection only.*

HENRY. 4th December 1858.

2783. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in weaving and in looms or apparatus employed therein."—*A communication from Mr. F. Durand and Mr. Pradel.*
Letters Patent sealed.

NEWTON. 4th December 1858.

2784. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in grain and grass harvesting machines."—*A communication.*
Letters Patent sealed.

PLATT. 4th December 1858.

2785. JOHN PLATT, of Oldham, in the County of Lancaster, Mechanical Engineer, for an invention for—"Improvements in mules for spinning."
Provisional protection only.

HARDING. 4th December 1858.

2786. THOMAS RICHARDS HARDING, of Leeds, in the County of York, Hackle Pin Manufacturer, for an invention for—"Improvements in combs, gills, hackles, and similar implements used in silk, wool, and flax machinery, and in the method of making the same." *Provisional protection only.*

JOBSON. 6th December 1858.

2787. JOHN JOBSON, of the Derwent Foundry, Derby, for an invention for—"Improvements in the manufacture of stoves and fireplaces."—*Letters Patent sealed.*

ARNOLD. 6th December 1858.

2788. JAMES GREENE ARNOLD, of Worcester, Massachusetts, in the United States of America, for an invention for—"Improvements in envelopes for letters and similar purposes." *Letters Patent sealed.*

NICOLL. 6th December 1858.

2789. BENJAMIN NICOLL, of 40 and 42, Regent Street, and 46, Lombard Street, London, Shirt Maker, and 42, Grafton Street, Dublin, for an invention for—"Improvements in agricultural machinery for all kinds of crop, chaff, turnip, and other root cutting, and for the purposes of hay making and rubbing corn and seed from the stalks (instead of threshing)." *Provisional protection only.*

MUIR. MUIR. 6th December 1858.

2790. JAMES MUIR, of Glasgow, in the County of Lanark, North Britain, Pattern Designer, and FRANCIS MUIR, of Paisley, in the County of Renfrew, North Britain, Pattern Printer, for an invention for—"Improvements in ornamental or colour printing." *Provisional protection only.*

SNELL. 6th December 1858.

2791. GEORGE SNELL, of Leeds, in the County of York, Cloth Finisher, for an invention for—"Improvements in machinery or apparatus for cutting woollen fabrics." *Letters Patent sealed.*

DAWSON. 6th December 1858.

2792. JOHN DAWSON, of Holbeck, in the Parish of Leeds, in the County of York, Machine Maker, for an invention for—"Improvements in machinery or apparatus for raising the nap on woollen cloths." *Letters Patent sealed.*

WHITE. 6th December 1858.

2793. DAVID BLAIR WHITE, of Newcastle-upon-Tyne, in the County of Northumberland, Doctor of Medicine, for an invention for—"Improvements in indicating-gauges." *Letters Patent sealed.*

BROOMAN. 6th December 1858.

2794. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in the manufacture of gloves."—*A communication from Messrs. A. & L. Fontaine, residing in Paris.* *Letters Patent sealed.*

FLETCHER. 6th December 1858.

2795. FREDERICK WILLIAM FLETCHER, of Erdington, near Birmingham, in the County of Warwick, Tube and Nail Manufacturer, for an invention for—"Improvements in bolts for securing doors and for other similar purposes."
Letters Patent sealed.

SCALE. 6th December 1858.

2796. EDWIN WATKIN SCALE, of Merthyr Tydvil, in the County of Glamorganshire, South Wales, Agent and Contractor, for an invention for—"Improvements in railway and other breaks." *Provisional protection only.*

BOYD. 7th December 1858.

2797. JAMES EDWARD BOYD, of Hither Green, Lewisham, in the County of Kent, Gentleman, for an invention for—"Improvements in the construction of taps, valves, cocks, spiggotts, or other apparatus or instruments for guaging or for drawing off the liquid or fluid contents of any cask, butt, vat, barrel, or other vessel."
Letters Patent sealed.

GILBEE. 7th December 1858.

2798. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"An improved portable bath."—*A communication.* *Provisional protection only.*

WILLIAMS.
ELLISON.
7th December 1858.

2799. CHARLES WILLIAMS, and WILLIAM ELLISON, of No. 17, Acton Place, Kingsland Road, in the County of Middlesex, for an invention for—"A new mode or method of securing and liberating the corks and stoppers of bottles."
Provisional protection only.

WHITELEY.
KITCHENMAN.
7th December 1858.

2800. JOHN WHITELEY, of Halifax, in the County of York, Machine Maker, and THOMAS KITCHENMAN, of the same place, Stuff Presser, for an invention for—"Improvements in press plates or apparatus employed in hot pressing woven fabrics."
Provisional protection only.

MADDERS.
WADDINGTON.
7th December 1858.

2801. WILLIAM MADDERS, and JOHN WADDINGTON, of the City of Manchester, in the County of Lancaster, Embroiderers, for an invention for—"Improvements in machinery or apparatus for embroidering woven fabrics."
Provisional protection only.

HARRIS.
7th December 1858.

2802. JOHN JAMES HARRIS, of Woodlesford, near Leeds, in the County of York, Brewer, for an invention for—"Improvements in apparatus for refrigerating and regulating the temperature in worts and beer, which may also be employed as condensers in distilling."
Provisional protection only.

LARNED.
7th December 1858.

2803. JOSEPH G. E. LARNED, of the City of Brooklyn, in the State of New York, United States of America, for an invention for—"Improvements in the construction and arrangement of the boilers and working parts of steam fire-engines, part of which is applicable to engines for other purposes."
Provisional protection only.

SCARBOROUGH.
7th December 1858.

2804. JOHN VICKERS SCARBOROUGH, of Belfast, in the County of Antrim, Ireland, Gutta-percha Boot Manufacturer, for an invention for—"Improvements in apparatus for the manufacture of boots and shoes."
Letters Patent sealed.

HASLAM.
LUTENER.
7th December 1858.

2805. JOHN HASLAM, of Preston, in the County of Lancaster, Bookkeeper, and JOHN LUTENER, of the same place, Shuttle Maker, for an invention for—"Improvements in healds used in looms and dressing-frames."
Provisional protection only.

BURNESS.
7th December 1858.

2806. WILLIAM BURNESS, of 2, Prospect Terrace, Brixton, in the County of Surrey, for an invention for—"Improvements in pumping and forcing liquids."
Letters Patent sealed.

PUGH.
7th December 1858.

2807. STEPHEN WILLIAMS PUGH, of Nelson Square, Commercial Road, New Peckham, in the County of Surrey, for an invention for—"Improvements in obtaining and purifying naphtha, paraffine and other oils, and also spirits."
Provisional protection only.

FERRABEE.
ENGLAND.
7th December 1858.

2808. JAMES FERRABEE, of the Phœnix Iron Works, Stroud, in the County of Gloucester, Engineer, and FREDERICK HENRY ENGLAND, Manager, of Foomhall Mills, Stroud, for an invention for—"Improvements applicable to machinery for carding, scribbling, and condensing wool and other fibrous substances."
Letters Patent sealed.

MENNONS.
7th December 1858.

2809. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved apparatus for ascertaining and registering the work of certain kinds of lever balances."—*A communication.*
Complete specification: Letters Patent sealed.

CHANTRELL.
8th December 1858.

2810. GEORGE FREDERIC CHANTRELL, of Liverpool, in the County of Lancaster, Furnace Engineer, for an invention for—"Improvements in apparatus applicable to the manufacture and revivification of animal or vegetable charcoal."
Letters Patent sealed.

DE CAPPOT.
JARRIANT.
8th December 1858.

2811. CHARLES DE CAPPOT, and ALEXANDER JARRIANT, of No. 10, Route de la Revolte, Neuilly-sur-Seine, in the Empire of France, Civil Engineers, for an invention for—"A new hydraulic counter."
Provisional protection only.

MANNING.
8th December 1858.

2812. ROBERT LANG PAIGE MANNING, of Prince's Square, in the County of Middlesex, Mariner, for an invention for—"A floating paddle-wheel."
Provisional protection only.

HENRY.
8th December 1858.

2813. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in twisting fibrous materials, and in machinery or apparatus employed therein."—*A communication from Messieurs F. Durand and Pradel.*
Letters Patent sealed.

PHILLIPS. 8th December 1858.

2814. SAMUEL PHILLIPS, of Moseley, near Birmingham, in the County of Warwick, Gentleman, for an invention for—"Improvements in sliding window-sashes, shutters, and doors." *Provisional protection only.*

LAMB. SUMMERS. 8th December 1858.

2815. ANDREW LAMB, and WILLIAM ALLTOFT SUMMERS, both of Southampton, in the County of Hants, Engineers, for an invention for—"Improved arrangement of apparatus for superheating steam." *Letters Patent sealed.*

KING. 8th December 1858.

2816. WILLIAM KING, the younger, of Guildford, in the County of Surrey, Grocer and Tea Dealer, for an invention for—"Improvements in apparatus for roasting coffee and other substances." *Provisional protection only.*

WESTMACOTT. 8th December 1858.

2817. CHARLES MARTIN WESTMACOTT, of Arboretum Street, Litchurch, near Derby, in the County of Derby, for an invention for—"Improvements in the permanent way of railways." *Provisional protection only.*

MEIDINGER. 8th December 1858.

2818. HENRY MEIDINGER, of the University of Heidelberg, Germany, for an invention for—"Improvements in electric batteries." *Letters Patent sealed.*

BURROWES. KNOWLES. 9th December 1858.

2819. ROBERT LLOYD BURROWES, of St. Helen's, in the County of Lancaster, Professor of Music, and JOHN KNOWLES, Junior, of the same place, Mine Surveyor, for an invention for—"Certain improvements in the construction of pianofortes and organs." *Letters Patent sealed.*

BARROW. 9th December 1858.

2820. JOHN BARROW, junior, of the City of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the treatment of coal gas tar, and of the oils obtained by the distillation of the same, and for the application of substances obtained thereby." *Letters Patent sealed.*

MAUDSLAY. 9th December 1858.

2821. HENRY MAUDSLAY, of No. 4, Cheltenham Place, Lambeth, in the County of Surrey, Civil Engineer, for an invention for—"Improved glass and other vitreous vessels." *Letters Patent sealed.*

ECCLES. 9th December 1858.

2822. JOSEPH ECCLES, of Blackburn, in the County of Lancaster, Cotton Manufacturer, for an invention for—"Improvements in arrangements and machinery for preparing for manufacture and for manufacturing clay and other plastic earths into bricks, tiles, pipes, and other articles formed of such materials." *Letters Patent sealed.*

BELL. 9th December 1858.

2823. HENRY BELL, of Belfast, in the County of Antrim, Ireland, for an invention for—"Improvements in musical instruments." *Provisional protection only.*

LITTLE. 9th December 1858.

2824. JOHN LITTLE, of Glasgow, in the County of Lanark, North Britain, Ironmonger, for an invention for—"Improvements in fire grates and heating apparatus." *Provisional protection only.*

ELDER. 9th December 1858.

2825. JOHN ELDER, of Glasgow, Engineer, for an invention for—"Improvements in paddle-wheels." *Letters Patent sealed.*

STEWART. 9th December 1858.

2826. JAMES STEWART, of 69, Tottenham Court Road, in the County of Middlesex, for an invention for—"Improvements in the construction of the action of pianofortes." *Letters Patent sealed.*

ALLEN. 9th December 1858.

2827. THOMAS ALLEN, of Clifton, Bristol, Ironmonger, for an invention for—"Improvements in folding bedsteads." *Letters Patent sealed.*

WILSON. 9th December 1858.

2828. JOHN WILSON, of Wansford, Northamptonshire, for an invention for—"Improvements in machinery for tilling and cultivating land." *Letters Patent sealed*

WILSON. 9th December 1858.

2829. HENRY WILSON, of Norton, in the County of Durham, Brass Finisher, for an invention for—"Improvements in the construction of pumps." *Letters Patent sealed.*

PENSUETE. 9th December 1858.

2830. ETIENNE LÉON PENSUETE, of Dunkirk, in the Empire of France, for an invention for—"Improvements in apparatus for driving or for drawing up piles by steam." *Letters Patent sealed.*

LAUTH. 9th December 1858.

2831. BERNARD LAUTH, late of Pittsburgh, State of Pennslyvania, U. S. A., but now residing at Morley's Hotel, Trafalgar Square, in the City of Westminster, Mechanician, for an invention for—"An improved mode of manufacturing rods and shafts." *Letters Patent sealed.*

BETHELL.
10th December 1858.

2832. JOHN BETHELL, of No. 8, Parliament Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in machinery and apparatus for the preservation and colouring of wood." *Provisional protection only.*

LIGHTFOOT.
10th December 1858.

2833. JOHN LIGHTFOOT, of Accrington, in the County of Lancaster, Calico Printer, for an invention for—"Improvements in printing or staining yarns, fabrics, or fibrous substances, and in the manufacture of certain compounds for that purpose." *Letters Patent sealed.*

FLOCKTON.
10th December 1858.

2834. JOSEPH FLOCKTON, Junior, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in stop or reversing taps." *Provisional protection only.*

BARCLAY.
10th December 1858.

2835. ANDREW BARCLAY, of Kilmarnock, in the County of Ayr, North Britain, Engineer, for an invention for—"Improvements in electric, magnetic, and electro-magnetic telegraph ropes or conductors." *Provisional protection only.*

BARCLAY.
10th December 1858.

2836. ANDREW BARCLAY, of Kilmarnock, in the County of Ayr, North Britain, Engineer, for an invention for—"Improvements in obtaining motive-power by means of electricity, magnetism, and electro-magnetism." *Letters Patent sealed.*

HODGSON.
10th December 1858.

2837. CHARLES HODGSON, of Ballard Rathdrum, in the County of Wicklow, Ireland, Esquire, for an invention for—"Improvements in the manufacture of fuel from peat and in apparatus employed therein, part of which is also applicable to the moulding of bricks, tiles, and other plastic materials." *Letters Patent sealed.*

BEARDMORE.
10th December 1858.

2838. WILLIAM BEARDMORE, of Deptford, in the County of Kent, Engineer, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

WILSON.
10th December 1858.

2839. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the County of Surrey, for an invention for—"Improvements in the manufacture of lubricating oils." *Letters Patent sealed.*

KIALLMARK.
TIMEWELL.
10th December 1858.

2840. GEORGE WILLIAM BRYANT KIALLMARK, of Bridgewater, in the County of Somerset, and WILLIAM THOMAS TIMEWELL, of North Wharf Road, Paddington, in the County of Middlesex, for an invention for—"Improvements in the manufacture of cements." *Letters Patent sealed.*

HALL.
DUTSON.
11th December 1858.

2841. WILLIAM FOLEY HALL, and THOMAS DUTSON, of St. Paul's Square, Birmingham, in the County of Warwick, Button Manufacturers, for an invention for—"Certain improvements in fancy buttons for ladies' and gentleman's wear." *Provisional protection only.*

GUTHRIE.
11th December 1858.

2842. JOHN BONAR GUTHRIE, of Manchester, in the County of Lancaster, Warehouseman, for an invention for—"Improvements in the manufacture of India-rubber overshoes." *Letters Patent sealed.*

DUDGEON.
11th December 1858.

2843. STEPHEN DUDGEON, of Sheffield, in the County of York, for an invention for—"An improved gas regulator." *Letters Patent sealed.*

HINKS.
11th December 1858.

2844. JAMES HINKS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in ships' and other lamps." *Provisional protection only.*

ROBERTSON.
11th December 1858.

2845. PATRICK ROBERTSON, of Sun Court, Cornhill, in the City of London, for an invention for—"Improvements in shuttles."—*A communication.* *Provisional protection only.*

RICHARDSON.
11th December 1858.

2846. CHARLES JAMES RICHARDSON, of 34, Kensington Square, in the County of Middlesex, Fellow of the Royal Institute of British Architects, for an invention for—"Improvements in apparatus to be applied to chimneys or flues of buildings, for economizing heat and reducing the quantity of smoke passing into the atmosphere." *Provisional protection only.*

SCHAFFNER.
11th December 1858.

2847. MAXIMILIEN SCHAFFNER, Civil Engineer, of Eisenach, for an invention for—"Improvements in smelting zinc ores and in furnaces employed for this purpose." *Letters Patent sealed.*

WILEY.
11th December 1858.

2848. WILLIAM EDWARD WILEY, Pen and Pencil Manufacturer, of 34, Great Hampton Street, Birmingham, for an invention for—"Improvements in ever-pointed pencils." *Letters Patent sealed.*

ROLLASON. 11th December 1858.

2849. ALEXANDER ROLLASON, of Birmingham, in the County of Warwick, Chemist, for an invention for—"Improvements in the manufacture of waterproof tissues, and in applying such waterproof material to woven fabrics and manufactured fibrous goods." *Letters Patent sealed.*

CARRUTHERS. BLACKBURN. 13th December 1858.

2850. JOHN ANDERTON CARRUTHERS, Reed Maker, and THOMAS BLACKBURN, Mechanic, both of Blackburn, in the County of Lancaster, for an invention for—"Improvements in apparatus for guiding and regulating the warp threads in the operations of warping, tape sizeing, looming, and weaving." *Letters Patent sealed.*

WHITTAM. 13th December 1858.

2851. ROBERT WHITTAM, of Accrington, in the County of Lancaster, Engraver to Calico Printers, for an invention for—"Improvements in machinery or apparatus for tracing designs from an engraved roller, or from an engraver's sketch, upon steel or other metallic surfaces used as dies by engravers to calico printers." *Letters Patent sealed.*

YON. 13th December 1858.

2852. LOUIS CHARLES VICTOR YON, of the Town of Lisieux, Department of the Calvados, Empire of France, Upholsterer, for an invention for—"Improved elastic beds." *Provisional protection only.*

ROUSSEL. 13th December 1858.

2853. JOSEPH MARIE ROUSSEL, of No. 8, Impasse des Couronnes, in Belleville, near Paris, in the Empire of France, Mechanician, for an invention for—"A new system and new apparatus using air as a motive-power." *Provisional protection only.*

BOYD. 13th December 1858.

2854. JAMES EDWARD BOYD, of Hither Green, Lewisham, in the County of Kent, Gentleman, for an invention for—"Improvements in candlesticks, lamps, and lanthorns." *Letters Patent sealed.*

BROOMAN. 13th December 1858.

2855. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in twisting and otherwise operating upon threads, twine, or cords, and in apparatus for performing the same."—*A communication from Messieurs Edmond Empis and Co., residing at Wazemines, near Lille, France.* *Letters Patent sealed.*

BROOMAN. 13th December 1858.

2856. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in the manufacture of cranked axles and shafts."—*A communication from Messrs. Russery, Lacombe, & Co., residing at Rive de Gier, France.* *Letters Patent sealed.*

LOOMES. 13th December 1858.

2857. EDWARD LOOMES, of Whittlesea, in the Isle of Ely, and County of Cambridge, Farmer, for an invention for—"An improvement in the construction of steam-engines." *Provisional protection only.*

FERRABEE. 13th December 1858.

2858. JAMES FERRABEE, of the Phœnix Iron Works, Stroud, in the County of Gloucester, Engineer, for an invention for—"Improvements in the construction of steam-engines, and in the mode of working the same." *Letters Patent sealed.*

WEBSTER. 14th December 1858.

2859. JAMES WEBSTER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"A new or improved method of recovering copper and zinc from liquids which have been employed to dip or pickle articles made of brass or other alloys containing copper and zinc." *Letters Patent sealed.*

BOW. 14th December 1858.

2860. EBENEZER BOW, of Port Dundas, in the County of Lanark, North Britain, Coal Master, for an invention for—"Improvements in pumps." *Letters Patent sealed.*

ANDERSON. 14th December 1858.

2861. DAVID ANDERSON, of Glasgow, in the County of Lanark, North Britain, Ironmonger, for an invention for—"Improvements in taps or valves." *Provisional protection only.*

WADE. 14th December 1858.

2862. JOSEPH WADE, of Bradford, in the County of York, Manufacturer, for an invention for—"Improvements in means or apparatus employed in weaving." *Letters Patent sealed.*

BAKER. 14th December 1858.

2863. GEORGE WILLIAMS BAKER, of Park Farm, Woburn, in the County of Bedford, Farm Steward, for an invention for—"An improved construction of manger fastening." *Letters Patent sealed.*

BROOMAN. 14th December 1858.

2864. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"An improvement in transmitting electric telegraph signals."—*A communication from T. A. M. Sortais, residing at Lisieux, France.* *Letters Patent sealed.*

SMETS.
14th December 1858.

2865. JACQUES THÉODORE SMETS, of Plaçamen, in the Empire of France, Distiller, for an invention for—"A method of making vinegar from a refuse product obtained in the manufacture of starch." *Provisional protection only.*

JOSSA.
14th December 1858.

2866. FERDINAND JOSSA, of Bishop Auckland, in the County of Durham, Chemist, for an invention for—"Improvements in furnaces for generating steam and other purposes." *Letters Patent sealed.*

PENDLEBURY.
15th December 1858.

2867. JOHN PENDLEBURY, of Crumpsall, in the County of Lancaster, Bleacher, for an invention for—"Certain improvements in machinery or apparatus for bleaching or cleansing textile fabrics or materials." *Letters Patent sealed.*

ROWAN.
15th December 1858.

2868. DAVID ROWAN, of Greenock, in the County of Renfrew, North Britain, Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

BRIDGES.
15th December 1858.

2869. HENRY BRIDGES, of Bridgewater, in the County of Somerset, Railway Carriage Builder, for an invention for—"Improvements in the means of working breaks on carriages on railways." *Letters Patent sealed.*

VIELLARD-MIGEON.
15th December 1858.

2870. FRANÇOIS CHRISTOPHE NICOLAS JUVENAL VIELLARD-MIGEON, of Morvillars, Departement of Haut Rhin, France, Manufacturer of Wood Screws, for an invention for—"Improvements in manufacturing screws, rivets, nails, spikes, and all similar articles made of metallic wire, and in the machines connected therewith." *Letters Patent sealed.*

NEWTON.
15th December 1858.

2871. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for manufacturing bullets."—*A communication.* *Letters Patent sealed.*

NEWTON.
15th December 1858.

2872. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved arrangement of condensing apparatus."—*A communication.* *Letters Patent sealed.*

BULLOUGH.
15th December 1858.

2873. JOHN BULLOUGH, of Blackburn, in the County of Lancaster, Manager, for an invention for—"Improvements in looms." *Letters Patent sealed.*

VASSEROT.
15th December 1858.

2874. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved pendulum governor for regulating the supply of steam to the cylinders of marine engines."—*A communication from Mr. Billotet, residing at Marseilles, in the Empire of France.* *Letters Patent sealed.*

CLARK.
15th December 1858.

2875. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improved agricultural implements."—*A communication from Louis Jacques Château, Public Notary, of Paris, in the Empire of France.* *Letters Patent sealed.*

WARDILL.
15th December 1858.

2876. JONATHAN WARDILL, of Commercial Road East, in the County of Middlesex, Engineer, for an invention for—"An improved stopper or controller to stop and control the running out of chains and ropes." *Letters Patent sealed.*

BELL.
15th December 1858.

2877. GEORGE BELL, of Wandsworth, in the County of Surrey, Gentleman, for an invention for—"An improvement in matches and fusees." *Provisional protection only.*

MOSS.
15th December 1858.

2878. THOMAS MOSS, of Gainsford Street, Islington, in the County of Middlesex, for an invention for—"Improvements in printing bank notes, bills of exchange, and other documents requiring like security against being copied." *Letters Patent sealed.*

MORGAN.
15th December 1858.

2879. WILLIAM MORGAN, of Witton Park Iron Works, near Darlington, in the County of Durham, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

WILSON.
WILSON.
16th December 1858.

2880. ROBERT WILSON, Senior, and ROBERT WILSON, Junior, of Livesy Street, Manchester, in the County of Lancaster, for an invention for—"Certain improvements in the preparation of leather in combination with India-rubber and other materials, for the manufacturing of hose pipes, and other purposes where leather is required to be impervious to water, steam, or frost." *Letters Patent sealed.*

CARMONT.
CORBETT.
16th December 1858.

2881. WILLIAM HASSALWOOD CARMONT, of No. 2, Rosamond Place, Upper Brook Street, Manchester, in the County Palatine of Lancaster, Iron Manufacturer, and WILLIAM CORBETT, of No. 22, Blantyre Street, Chester Road, Manchester, aforesaid, Iron Manufacturer, for an invention for—"An improved mode of constructing furnaces for the production of wrought iron and steel, and manufacturing such metals into ingots and other forms." *Provisional protection only.*

STOKES.
STOKES.
16th December 1858.

2882. ABEL STOKES, of Birmingham, in the County of Warwick, Manufacturer, and FREDERICK JOSEPH STOKES, of Birmingham, aforesaid, Manufacturer, for an invention for—"New or improved machinery for the manufacture of screws." *Letters Patent sealed.*

MUSHET.
16th December 1858.

2883. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"A new or improved manufacture of cast steel." *Letters Patent sealed.*

SELWYN.
16th December 1858.

2884. JASPER HENRY SELWYN, of Woodland Crag, Grasmere, in the County of Westmoreland, Captain in the Royal Navy, for an invention for—"A novel apparatus for paying out or laying down submarine telegraph cables or wires, and for raising the same after they have been laid down." *Letters Patent sealed.*

EDGE.
16th December 1858.

2885. JOHN WILLIAM EDGE, of Manchester, in the County of Lancaster, Gun Maker, for an invention for—"A certain improvement in balls, bullets, or other projectiles to be employed in fire-arms or ordnance." *Letters Patent sealed.*

FRIEND.
16th December 1858.

2886. JOHN WALTER FRIEND, of Freemantle, Southampton, Watch and Clock Maker, for an invention for—"Improved apparatus for ascertaining and registering the depth and flow of liquids and the distances run by ships at sea." *Letters Patent sealed.*

MACKENZIE.
16th December 1858.

2887. ALEXANDER MACKENZIE, of Glasgow, in the County of Lanark, North Britain, Mechanist, for an invention for—"Improvements in sewing-machines." *Provisional protection only.*

MARÇAIS.
16th December 1858.

2888. JOSEPH JEAN MARÇAIS, of Paris, France, Civil Engineer, for an invention for—"Improvements in galvanic batteries." *Letters Patent sealed.*

WHITE.
PARLBY.
16th December 1858.

2889. WILLIAM WHITE, and JOSIAH PARLBY, of Great Marylebone Street, in the County of Middlesex, Architectural Decorators, for an invention for—"Improvements in the preparation or treatment of 'carton pierre' and such like composition, and in the application thereof to the coating or covering of walls and other surfaces." *Provisional protection only.*

BROOMAN.
16th December 1858.

2890. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"An improvement in plating and gilding forks, spoons, and other metal articles."—*A communication from Messieurs de Sauvigny, residing at Paris.—Letters Patent sealed.*

CLARK.
16th December 1858.

2891. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in submarine electric telegraph cables or conductors."—*A communication from Felix Marie Baudoin, of Rue des Recollets, Paris.*" *Letters Patent sealed.*

ASTON.
17th December 1858.

2892. JAMES JONES ASTON, of 41, Doughty Street, in the County of Middlesex, and of the Middle Temple, Barrister-at-Law, for an invention for—"Improvements in machinery or propellers applicable for the propulsion of ships, boats, and other vessels on and through the water, and in the propelling of all such vessels on and through the water by means of such propellers." *Letters Patent sealed.*

JOHNSON.
17th December 1858.

2893. WILLIAM BECKETT JOHNSON, Manager for Messrs. Ormerod and Son, of Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in machinery or apparatus for preparing for joining the rails of railways." *Letters Patent sealed.*

INSHAW.
INSHAW.
17th December 1858.

2894. JOHN INSHAW, of Birmingham, in the County of Warwick, Engineer, and JOSEPH INSHAW, of Birmingham aforesaid, Engineer, for an invention for—"An improvement or improvements in locomotive engines." *Provisional protection only.*

HINDE.
17th December 1858.

2895. ARTHUR HINDE, of Wolverhampton, in the County of Stafford, Manager of Iron Works, for an invention for—"Improvements in treating or preparing the cinder or slag from puddling furnaces, for the purpose of facilitating the manufacture of iron therefrom." *Provisional protection only.*

KERR.
17th December 1858.

2896. JAMES KERR, of 17, Bedford Terrace, Trinity Square, Southwark, in the County of Surrey, Engineer, for an invention for—"Improvements in the construction of revolving fire-arms." *Letters Patent sealed.*

CLEGG.
17th December 1858.

2897. JAMES CLEGG, of Keighley, in the County of York, Engineer, for an invention for—"Improvements in lubricating the valves and pistons of steam-engines." *Letters Patent sealed.*

KETCHUM.
18th December 1858.

2898. ISAAC KETCHUM, of 59, Canning Street, Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improvements in the method of roasting meat, poultry, game, by basting the same, and in the method of manufacturing the necessary apparatus for so doing." *Letters Patent sealed.*

AITKEN.
BROOKS.
18th December 1858.

2899. JOHN AITKEN, of Irwell Vale Mill, Edenfield, near Bury, in the County of Lancaster, Manufacturer, and JOHN BROOKS, of the same place, Overlooker, for an invention for—"Improvements in looms." *Letters Patent sealed.*

MACKENZIE.
18th December 1858.

2900. JAMES MACKENZIE, Manager to William Strode, of Saint Martins-le-Grand, in the City of London, Gas Engineer, for an invention for—"Improvements in those gas-burners known as ventilating sun-burners." *Letters Patent sealed.*

MITCHELL.
18th December 1858.

2901. ALEXANDER MITCHELL, of Glasgow, Machinist, for an invention for—"Improved apparatus for registering the speed of engines and other machinery." *Letters Patent sealed.*

TAYLOR.
18th December 1858.

2902. JAMES TAYLOR, of Birkenhead, Engineer, for an invention for—"Improvements in the construction of pumps or engines for lifting and discharging water." *Letters Patent sealed.*

HOW.
18th December 1858.

2903. ANDREW PEDDIE HOW, of Mark Lane, Engineer, for an invention for—"Improvements in cocks or stop valves." *Provisional protection only.*

WEBER.
18th December 1858.

2904. EMILE WEBER, of Mulhouse, in the Empire of France, Chemist, for an invention for—"Improvements in dyeing or coloring textile fabrics and materials, and in the machinery or apparatus connected therewith." *Letters Patent sealed.*

SOUTTER.
18th December 1858.

2905. JAMES SOUTTER, of Edinburgh, in the County of Midlothian, Turner, for an invention for—"Improvements in apparatus for drying or airing linen or other articles of wearing-apparel." *Letters Patent sealed.*

JOHNSON.
18th December 1858.

2906. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for reworking the waste steam of steam-engines."—*A communication.* *Provisional protection only.*

WOODCOCK.
20th December 1858.

2907. THOMAS SWANN WOODCOCK, of Salford, in the County of Lancaster, for an invention for—"An improved index or book and paper marker."—*A communication from Josee Johnson.* *Letters Patent sealed.*

HUNTER.
20th December 1858.

2908. SAMUEL HUNTER, of Newcastle-upon-Tyne, Gentleman, for an invention for—"Improvements in the construction of anchors." *Letters Patent sealed.*

MACLEHOSE.
20th December 1858.

2909. ROBERT MACLEHOSE, of the Town and County of Ayr, North Britain, Bookseller, for an invention for—"Improvements in stereoscopes." *Provisional protection only.*

RONALD.
20th December 1858.

2910. JAMES RONALD, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"An improved machine for the direct spinning of hemp, flax, and other like fibrous materials." *Letters Patent sealed.*

NEWTON.
20th December 1858.

2911. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in lanterns."—*A communication.* *Provisional protection only.*

WINTER.
21st December 1858.

2912. FREDERICK WINTER, of Hoxton, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in the preparation and application of varnishes for waterproofing paper, linen, and textile fabrics, and coating the same with metallic foils." *Provisional protection only.*

LIVINGSTON.
21st December 1858.

2913. ROBERT McLEAN LIVINGSTON, of the State of Alabama, in the United States of America, at present residing in Manchester, in the County of Lancaster, Vice Consul, for an invention for—"An improved self-detaching safety hook or coupling." *Provisional protection only.*

DANDO.
21st December 1858.

2914. WILLIAM ELBERT DANDO, of the State of Pennsylvania, in the United States of America, at present residing in Manchester, in the County of Lancaster, Clerk, for an invention for—"Improvements in apparatus for lowering boats from ships or vessels, and also for raising the same as required." *Letters Patent sealed.*

BOLTON.
GARFORTH.
21st December 1858.

2915. JOSEPH HOLROYD BOLTON, of Dukinfield, in the County of Chester, Warp Dresser, and CHARLES GARFORTH, of the same place, Engineer, for an invention for—"Certain improvements in drying yarns or fabrics, and in the apparatus connected therewith." *Provisional protection only.*

BÉLIARD.
21st December 1858.

2916. AUGUSTE STANISLAS BÉLIARD, of Bordeaux, in the Empire of France, Hatter, for an invention for—"An improved machine for pumicing felts, tissues, and skins." *Letters Patent sealed.*

YATES.
21st December 1858.

2917. WILLIAM SPEAKMAN YATES, of Leeds, in the County of York, Brush Maker, for an invention for—"Machinery or apparatus for dragging bristles and drawing hair and vegetable fibre." *Letters Patent sealed.*

DAWSON.
21st December 1858.

2918. NICHOLAS DAWSON, of 76, High Street, Poplar, in the County of Middlesex, Stationer, for an invention for—"Improvements in order books." *Provisional protection only.*

MAINWARING.
21st December 1858.

2919. WILLIAM MAINWARING, of Brimfield, in the County of Hereford, Surveyor, for an invention for—"Improvements in brakes for common road vehicles." *Provisional protection only.*

CLEGG.
ANGERSTEIN.
FERRY.
22nd December 1858.

2920. ROBERT CLEGG, of Islington, in the County of Middlesex, FREDERICK ANGERSTEIN, of Kennington, in the County of Surrey, and GEORGE FERRY, of Hackney, in the said County of Middlesex, for an invention for—"Improved mechanism for imparting reciprocating motion to machinery and more especially pumps." *Letters Patent sealed.*

MUSHET.
22nd December 1858.

2921. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"An improvement or improvements in the manufacture of cast steel." *Letters Patent sealed.*

SHARP.
ELDER.
22nd December 1858.

2922. GEORGE SHARP, of Jarrow, in the County of Durham, Millwright, and WILLIAM ELDER, of the same place, Engine Smith, for an invention for—"Improvements in furnaces and steam-boilers." *Provisional protection only.*

NICHOLSON.
CROSSLEY.
22nd December 1858.

2923. JOSEPH NICHOLSON, of Halifax, in the County of York, Jacquard Machine Maker, and DAVID CROSSLEY, of Brighouse, in the same County, Joiner and Pattern Maker, for an invention for—"Improvements in jacquard machinery or apparatus employed in weaving." *Provisional protection only.*

KENNEY.
22nd December 1858.

2924. MICHAEL KENNEY, of Queen Street, Dublin, Mechanical Engineer, for an invention for—"Improvements in bridges." *Letters Patent sealed.*

SPENCE.
22nd December 1858.

2925. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in granaries or apparatus for preserving grain."—*A communication from Charles Joseph Emile Pavy, of Girardet Indre et Loire, in the Empire of France, Farmer and Land Owner.* *Letters Patent sealed.*

DUNN.
22nd December 1858.

2926. EDWARD THOMAS DUNN, of Hammersmith, in the County of Middlesex, Gentleman, for an invention for—"Improved fabrics suitable for the covering of floors, walls, and other like purposes." *Letters Patent sealed.*

GREEN.
22nd December 1858.

2927. EDWARD GREEN, of Wakefield, in the County of York, Engineer, for an invention for—"Improvements in tables." *Provisional protection only.*

SHULDHAM.
22nd December 1858.

2928. MOLYNEUX SHULDHAM, of Dursley, in the County of Gloucester, Commander, Royal Navy, for an invention for—"Improvements in ships and vessels, and in working parts of their gear and rigging." *Provisional protection only.*

RANSOME.
22nd December 1858.

2929. FREDERICK RANSOME, of Ipswich, for an invention for—"Improvements in the manufacture of grinding and rubbing surfaces." *Letters Patent sealed.*

PRINCE.
22nd December 1858.

2930. ALEXANDER PRINCE, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"Improvements in ornamenting and illuminating surfaces of glass." *Letters Patent sealed.*

WELCH.
22nd December 1858.

2931. JOSEPH JAMES WELCH, of 17, Cheapside, in the City of London, for an invention for—"Improvements in the manufacture of neck-ties, scarfs, or cravats."
Provisional protection only.

LICHTENSTADT.
23rd December 1858.

2932. DAVID LICHTENSTADT, of Henry Cottages, Park Road, Peckham, in the County of Surrey, Chemist, for an invention for—"Converting a certain vegetable substance into fibrous material, for the manufacture of textile and other fabrics."
Provisional protection only.

RONALD.
23rd December 1858.

2933. JAMES RONALD, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improvements in and machinery for the manufacture of 'hard topped' and 'soft laid' twine, 'mill banding,' strands for ropes and other purposes, and cordage generally, from hemp, flax, cotton, and other like fibrous material."
Letters Patent sealed.

BIRD.
23rd December 1858.

2934. THOMAS BIRD, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in spinning and in the manufacture of cop bottoms or cop tubes." *Provisional protection only.*

BROOM.
23rd December 1858.

2935. JAMES BROOM, of Glasgow, in the County of Lanark, North Britain, Iron Manufacturer, for an invention for—"Improvements in the manufacture of steel."
Letters Patent sealed; no specification filed.

WHITELAW.
23rd December 1858.

2936. JOHN WHITELAW, of Dunfermline, in the County of Fife, North Britain, Ironfounder, for an invention for—"Improvements in sewerage and drainage apparatus." *Letters Patent sealed.*

BARCLAY.
23rd December 1858.

2937. ANDREW BARCLAY, of Kilmarnock, in the County of Ayr, North Britain, Engineer, for an invention for—"Improvements in obtaining and distributing or applying electricity and magnetism, and in obtaining motive-power therefrom."
Letters Patent sealed.

MAUDSLAY.
23rd December 1858.

2938. JOSEPH MAUDSLAY, of Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in the construction of ordnance and projectiles to be used therewith." *Provisional protection only.*

NEWBON.
SMITH.
BROWN.
24th December 1858.

2939. JAMES THOMAS PETER NEWBON, and THOMAS SMITH, of Fenchurch Street, Naval Architects, and JAMES BROWN, of Follit Street, Engineer, for an invention for—"Improvements in machinery or apparatus for raising and lowering or otherwise moving heavy weights." *Letters Patent sealed.*

ELERS.
FINK.
24th December 1858.

2940. WILLIAM ELERS, of Lambeth Street, and Goodmanstile, Whitechapel, Middlesex, Sugar Refiner, and LUDWIG FINK, of the same place, Sugar Boiler, for an invention for—"The filtration of dissolved sugar and other liquors."
Provisional protection NOT *granted.*

CHILD.
24th December 1858.

2941. JOHN WRIGHT CHILD, of Halifax, in the County of York, Engineer, for an invention for—"Improvements in the manufacture of fabrics adapted to be used for curtains, coverings of furniture, table covers, and such like uses."
Letters Patent sealed.

CHILD.
24th December 1858.

2942. JOHN WRIGHT CHILD, of Halifax, in the County of York, Engineer, for an invention for—"Improvements in dyeing wool and other fibres."
Letters Patent sealed.

OWEN.
24th December 1858.

2943. LEMUEL DOW OWEN, of No. 192, Tottenham Court Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in manufacturing horse shoe nails."—*A communication.* *Provisional protection only.*

FELLOWS.
24th December 1858.

2944. EDWARD FELLOWS, of Canterbury, in the County of Kent, Clerk, for an invention for—"An improved vent peg." *Letters Patent sealed.*

EDLESTON.
24th December 1858.

2945. DICKINSON EDLESTON, of Halifax, in the County of York, Dyer and Finisher, for an invention for—"Improvements in preparing and finishing textile fabrics, and in the means or apparatus employed therein." *Letters Patent sealed.*

RAILTON.
LANG.
24th December 1858.

2946. JOHN RAILTON, of Blackburn, in the County of Lancaster, Machine Maker, and SETH LANG, of the same place, Mechanic, for an invention for—"Improvements in looms." *Letters Patent sealed.*

HUMPHRYS.
24th December 1858.

2947. EDWARD HUMPHRYS, of Deptford, for an invention for—"Improvements in brazing metal tubes in tube plates and other metal surfaces to each other."
Provisional protection only.

SMITH.
24th December 1858.

2948. ALFRED SMITH, of Humbleton Hall, in the County of York, Agriculturist, for an invention for—"Improvements in gigs, dog carts, and other vehicles."
Provisional protection only.

LITTLE.
24th December 1858.

2949. JOHN LITTLE, of Glasgow, in the County of Lanark, North Britain, Ironmonger, for an invention for—"Improvements in lamps."
Provisional protection only.

JOHNSON.
24th December 1858.

2950. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the permanent way of railways."—*A communication from Christian E. Detmold, resident at the City of New York, United States of America.* *Letters Patent sealed.*

GIANDONATI.
24th December 1858.

2951. RAFAELLO LOUIS GIANDONATI, of the firm of Dodge and Giandonati, of St. Paul's Church Yard, in the City of London, Merchants, for an invention for—"Improvements in ornamenting leather cloth." *Provisional protection only.*

JOHNSON.
24th December 1858.

2952. WILLIAM BECKETT JOHNSON, Manager for Messrs. Ormerod and Son, of Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in the employment of gas for generating steam, and in engines connected therewith." *Letters Patent sealed.*

MENNONS.
27th December 1858.

2953. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved composition for the protection of certain metallic surfaces."—*A communication.* *Complete specification; Letters Patent sealed.*

RADLEY.
27th December 1858.

2954. JOHN RADLEY, of 22, Upper Sackville Street, in the City of Dublin, Hotel Keeper, for an invention for—"An improved cooking-apparatus."
Letters Patent sealed.

STEVEN.
SCOTT.
27th December 1858.

2955. THOMAS STEVEN, Ironfounder, and THOMAS SCOTT, Engineer, both of Glasgow, in the County of Lanark, North Britain, for an invention for—"Improvements in heating apparatus for culinary and warming purposes, and in part applicable to steam-boiler and other furnaces." *Letters Patent sealed.*

SMETHURST.
27th December 1858.

2956. JOSEPH SMETHURST, of the firm of Messieurs Martin and Smethurst, of Guide Bridge, in the County of Lancaster, Engineers, for an invention for—"Certain improvements in metallic pistons." *Letters Patent sealed.*

SHAW.
27th December 1858.

2957. JOHN SHAW, of Manchester, in the County of Lancaster, Mechanic, for an invention for—"A new mechanical combination called an indefinite feed movement."
Complete specification; Letters Patent sealed.

GILBEE.
27th December 1858.

2958. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Improvements in treating fatty bodies and in the apparatus employed therein."—*A communication.* *Letters Patent sealed.*

MACPHERSON.
27th December 1858.

2959. JAMES MACPHERSON, of Aberdeen, in the County of Aberdeen, North Britain, Comb Manufacturer, for an invention for—"Improvements in solidifying the raspings and other waste of horns and hoofs, and in applying the process to the cementing of prepared horns, hoofs, and tortoiseshell." *Letters Patent sealed.*

DAVIES.
27th December 1858.

2960. JOHN DAVIES, of Liverpool, in the County of Lancaster, Provision Merchant, for an invention for—"An improved portable self gas generating lamp."—*A communication from James Lawrence Butler, resident at Brooklin, in the State of New York, one of the United States of America.* *Letters Patent sealed.*

MARION.
27th December 1858.

2961. CLAUDE MAMÈS AUGUSTIN MARION, of Paris, in the Empire of France, Manufacturer, for an invention for—"An improved box or case for containing and preserving sensitive photographic paper, called 'Marion's box.'"
Letters Patent sealed.

TURNER.
27th December 1858.

2962. FREDERICK WILLIAM TURNER, of Foxhole Colliery, Swansea, in the County of Glamorgan, Mechanical Engineer, for an invention for—"Improvements in steam-engines, condensers, and steam-boilers, and in promoting combustion in the furnaces of the same." *Letters Patent sealed.*

LOWE.
TRUEMAN.
PITTS.
27th December 1858.

2963. HENRY LOWE, of Birmingham, in the County of Warwick, Manufacturer, and WILLIAM TRUEMAN, of Birmingham, aforesaid, Axle Maker, and JOHN LINWOOD PITTS, of Birmingham, aforesaid, Accountant Clerk, for an invention for—"A new or improved axle for carriages." *Letters Patent sealed.*

HORNSBY. 27th December 1858. — **2964.** RICHARD HORNSBY, Junior, of Spittlegate Iron Works, Grantham, in the County of Lincoln, for an invention for—"Improvements in ploughing and tilling land by steam power, and in apparatus employed therein." *Letters Patent sealed.*

BROWNE. 28th December 1858. — **2965.** BENJAMIN BROWNE, of No. 52, King William Street, London Bridge, E.C., Civil Engineer and Patent Agent, for an invention for—"Certain improvements in the manufacture of boots and shoes or other coverings for the feet, and in the mode or method of uniting the same or parts thereof."—*A communication.* *Letters Patent sealed.*

SINCLAIR. 28th December 1858. — **2966.** JOHN SINCLAIR, of the City of Dublin, Ireland, Turner and Fitter, for an invention for—"Improvements in pistons." *Letters Patent sealed.*

WARREN. 28th December 1858. — **2967.** THOMAS WARREN, of Glasgow, in the County of Lanark, North Britain, Glass Bottle Manufacturer, for an invention for—"Improvements in the manufacture of glass bottles." *Provisional protection only.*

LYONS. 28th December 1858. — **2968.** ABRAHAM LYONS, of the firm of Jacob Lyons and Sons, of Finsbury, in the County of Middlesex, for an invention for—"Improvements in travelling-bags." *Provisional protection only.*

LECK. 28th December 1858. — **2969.** JAMES LECK, of Glasgow, in the County of Lanark, North Britain, Bleacher, for an invention for—"Improvements in drying textile fabrics and materials." *Letters Patent sealed.*

FAY. 28th December 1858. — **2970.** CHARLES FAY, of Manchester, in the County of Lancaster, Railway Carriage Builder, for an invention for—"Improvements in railway carriages and brakes." *Provisional protection only.*

JOHNSON. 28th December 1858. — **2971.** JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of boots and shoes or other coverings for the feet."—*A communication.* *Letters Patent sealed.*

HAWORTH. BARKER. 29th December 1858. — **2972.** WILLIAM HAWORTH, of the firm of Firth and Haworth, Cotton Spinners and Manufacturers, of that part of Todmorden which is in the County of York, and WILLIAM BARKER, of the same place, Overlooker, for an invention for—"Improvements in the top clearers of machines for spinning." *Letters Patent sealed.*

WELTON. 29th December 1858. — **2973.** THOMAS WELTON, of 29, New Compton Street, Soho, in the County of Middlesex, Artificial Limb Maker, for an invention for—"Improvements in giving or obtaining publicity and of advertising either by day or by night. *Provisional protection only.*

CARTER. ABRAMS. 29th December 1858. — **2974.** EDWARD WILSON CARTER, of Rochdale, in the County of Lancaster, Cutler, and JOHN DODSWORTH ABRAMS, of the same place, Machinist, for an invention for—"Certain improvements in sewing-machines." *Provisional protection only.*

TAYLOR. GRIMSHAW. 29th December 1858. — **2975.** WILLIAM TAYLOR, of Nursling, in the County of Southampton, Gentleman, and WILLIAM DAKIN GRIMSHAW, of the Town and County of the Town of Southampton, Engineer, for an invention for—"Regulating the admission of natural atmospheric air and eduction of rarefied air or gases from hot-houses or any other place or premises, and for supporting a required temperature." *Letters Patent sealed.*

KAY. 29th December 1858. — **2976.** RICHARD DUGDALE KAY, of Accrington, in the County of Lancaster, Manufacturer of Patent Fabrics, for an invention for—"An improved chemical means of applying or fixing on woven or felted fabrics certain colouring matters produced from tar." *Letters Patent sealed.*

PICKFORD. 29th December 1858. — **2977.** THOMAS PICKFORD, of Number 15, Mark Lane, in the City of London, Merchant, for an invention for—"Improvements in the preparation and manufacture of manure." *Letters Patent sealed.*

HUTCHINSON. 29th December 1858. — **2978.** HIRAM HUTCHINSON, of the City of Paris, France, for an invention for—"Improvements in the manufacture of India-rubber goods." *Letters Patent sealed.*

MORAND. 29th December 1858. — **2979.** SAMUEL MORAND, of Manchester, for an invention for—"Improvements in apparatus for stretching fabrics." *Provisional protection only.*

NEWTON. 29th December 1858.

2980. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in machinery for reaping and mowing."—*A communication.*

Letters Patent sealed.

GOWING. 29th December 1858.

2981. THOMAS WILLIAM GOWING, of Camden Town, in the County of Middlesex, Veterinary Surgeon, for an invention for—"An improved roughing for the shoes of horses and other like animals." *Provisional protection only.*

MAYNARD. 30th December 1858.

2982. HENRY NATHAN MAYNARD, of Crumlin, in the County of Monmouth, Engineer, for an invention for—"Improvements in anchors and in the manufacture of anchors." *Provisional protection only.*

PULS. 30th December 1858.

2983. FRANCIS PULS, Chemist, of Roxburgh Terrace, Haverstock Hill, in the County of Middlesex, for an invention for—"The treatment of hydrocarbons."

Provisional protection only.

VION. 30th December 1858.

2984. HIPPOLYTE CHARLES VION, of Paris, in the Empire of France, Civil Engineer, for an invention for—"A new mode of obtaining atmospheric electricity and terrestrial electricity, and its industrial applications, and in apparatus for the same." *Letters Patent sealed.*

JOHNSON. WELLS. 30th December 1858.

2985. FREDERICK JOHNSON, and JOSEPH HENRY GEORGE WELLS, of 12, North Street, Westminster, Civil Engineers, for an invention for—"Improvements in constructing breakwaters and other similar structures."

Provisional protection only.

HEYNE. 30th December 1858.

2986. JOHN FRANCIS COLFS HEYNE, of Antwerp, in the Kingdom of Belgium, for an invention for—"Improvements in railway chairs and rails, and in the mode of fixing the same." *Provisional protection only.*

BELL. 30th December 1858.

2987. THOMAS BELL, of Plaistow, in the County of Essex, for an invention for—"Improvements in purifying gas." *Letters Patent sealed.*

BROOMAN. 30th December 1858.

2988. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in stoppering or closing bottles, jars, and other like vessels."—*A communication from M. Chamblant, residing at Paris.* *Provisional protection only.*

BROOMAN. 30th December 1858.

2989 RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in washing and drying machinery and apparatuses."—*A communication from S. Charles, residing at Paris.* *Letters Patent sealed.*

BROOMAN. 30th December 1858.

2990. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in revolving fire-arms."—*A communication from L. F. Devisme, residing at Paris.*

Letters Patent sealed.

BROOMAN. 30th December 1858.

2991. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in machines for embroidering."—*A communication from B. G. Dutel, residing at St. Quentin, France.*

Letters Patent sealed.

BROOMAN. 30th December 1858.

2992. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in machinery for splitting or dividing hides, skins, leather, and other like materials."—*A communication from F. Martin, residing at Paris.* *Letters Patent sealed.*

BROOMAN. 30th December 1858.

2993. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"An improvement in pipes for smoking."—*A communication from P. F. Varenne, residing at Paris."*

Provisional protection only.

BURGESS. 30th December 1858.

2994. WILLIAM BURGESS, of the firm of Burgess and Key, of Newgate Street, in the City of London, Agricultural Engineers, for an invention for—"Improvements in apparatuses for converting reciprocating into rotary motion."—*A communication from G. Bancker, residing in New York.* *Letters Patent sealed.*

BATESON. 30th December 1858.

2995. SAMUEL STEPHEN BATESON, of 17, Bolton Street, May Fair, in the County of Middlesex, Barrister-at-Law, for an invention for—"Improvements in generating steam." *Letters Patent sealed*

KNOWELDEN. EDWARDS. 30th December 1858.

2996. JOHN KNOWELDEN, of Southwark, in the County of Surrey, Engineer and RICHARD DOWNES EDWARDS, of Upper Belgrave Place, in the County of Middlesex, for an invention for—"Improvements in hydraulic engines and apparatus connected therewith." *Letters Patent sealed.*

DUNCAN. 30th December 1858.

2997. JOHN WALLIS DUNCAN, of Grove End Road, St. John's Wood, in the County of Middlesex, Gentleman, for an invention for—"Improvements in or connected with appliances for transmitting or conducting signals or action by electricity or magnetism, and in the method of testing insulating materials, combinations, or structures for conducting electricity, and in treating malconstructed or in invalid electric telegraph cables, and in utilizing parts of certain cables, or the application otherwise of such structures, and in certain insulating compounds, and in the apparatus and machinery used in connection therewith." *Letters Patent sealed.*

JOHNSON. 31st December 1858.

2998. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the permanent way of railways." —*A communication.* *Letters Patent sealed.*

JOHNSON. 31st December 1858.

2999. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture or production of boots and shoes or other coverings for the feet, and in the machinery and apparatus employed in such manufacture."—*A communication.* *Letters Patent sealed.*

ROBIN. 31st December 1858.

3000. HENRI ROBIN, of Nantes, in the Empire of France, for an invention for—"Improvements in reaping-machines." *Letters Patent sealed.*

WYATT. 31st December 1858.

3001. MATTHEW DIGBY WYATT, of Guildford Street, Russell Square, in the County of Middlesex, Architect, for an invention for—"Improvements in tiles and tessaroe and other wall coverings, and in the means of securing the same to walls and buildings." *Letters Patent sealed.*

MAUREL. 31st December 1858.

3002. TIMOLEON ZOÉ LOUIS MAUREL, of No. 44, Rue du Dragon, in the City of Paris, in the Empire of France, Civil Engineer, for an invention for—"An apparatus protracting indefinitely the working of any mechanism set in motion by springs, more generally applicable to clock making." *Provisional protection only*

LEES. HEAP. 31st December 1858.

3003. JOHN LEES, of Park Bridge, near Ashton-under-Lyne, in the County of Lancaster, Roller Maker, and WILLIAM HEAP, of Ashton-under-Lyne, aforesaid, Tool Maker, for an invention for—"Improvements in machinery for punching square holes in the ends of rollers and other articles." *Letters Patent sealed.*

SIEVERS. 31st December 1858.

3004. JOHN HENRY SIEVERS, of 48, Rathbone Place, Oxford Street, London, Gentleman, for an invention for—"Apparatus for tightening and releasing the belly bands of riding saddles."—*A communication from Monsieur Charles Zipp, of Paris.* *Provisional protection only.*

CASPER. SCHMAHL. 31st December 1858.

3005. FREDERIC WILHELM ALEXANDRE CASPER, and GUILLAUME HENRY SCHMAHL, both of No. 152, Rue du Faubourg St. Martin, Paris, for an invention for—"Using Spart or Spanish broom in manufacturing seats of all descriptions." *Letters Patent sealed.*

NORMANDY. 31st December 1858.

3006. LOUIS A. NORMANDY, Junior, of 67, Judd Street, London, for an invention for—"A new system of shaft tugs."—*A communication.* *Letters Patent sealed.*

JOHNSON. 31st December 1858.

3007. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture or production and casting steel, and in the apparatus employed therein."—*A communication from Monsieur Sudre.* *Letters Patent sealed.*

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